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	Total	83,595,000	77.060.000	82,708,000	80,429,000	92,857,000	99,821,000	87,533,000	102,789,000	95,680,000	<u>76,332,000</u>	000'086'86	76,833,000	1,049,557,000
	Ground Water	46,766,000	43,337,000	45,696,000	44,935,000	<u>52,008,000</u>	54,861,000	5,041,000	Oł	0	Ol	0	OI	292,644,000
2009 Pumpage	Milw. Water	36,829,000	33,723,000	37,012,000	35,494,000	40,849,000	44,960,000	82,492,000	102,789,000	95,680,000	76,332,000	93,930,000	76,833,000	756,913,000
		January	February	March	April	Мау	June	July	August	September	October	November	December	Total

2010 Pumpage

	Milw. Water	Avg. Daily Usage
January	<u>77,518,000</u>	<u>2,501,000</u>
February	70,321,000	<u>2,511,000</u>
March	77,811,000	<u>2.510,000</u>
April		
May		
June		
July		
August		
September		
October		
November		
December		
Total		

2009 Sewer Flows

January	<u>12,451,281</u>
February	14,084,000
March	<u>19,928,016</u>
April	<u>20,767,811</u>
Мау	17,895,967
June	<u>24,952,056</u>
July	<u>13,914,434</u>
August	<u>13,898,773</u>
September	<u>12,660,115</u>
October	<u>14,315,313</u>
November	<u>15,840,319</u>
December	<u>19,612,228</u>
Total	193,947,904

2010 Sewer Flows

January	<u>18,093,484</u>
February	14,084,000
March	<u>0</u>
April	<u>0</u>
Мау	0
June	<u>0</u>
July	<u>0</u>
August	<u>0</u>
September	<u>0</u>
October	<u>0</u>
November	<u>0</u>
December	<u>0</u>
Total	<u>0</u>

2009 - Condo/Apartment population Calcuation

:Basin	是影響是有	Bedroom	Units	Factor	Population	
MILW	Apartment	1	452		678	
MILW	Apartment	2	901	2.50	2,253	
MILW	Apartment	3	79	2 66	210	
MILW	CONDO		109	1.50	164	
					3,304	Total
			:			
MISB	Apartment	1	354	1.50	531	
MISB	Apartment	2	817	2.50	2,043	
MISB	Apartment	3	2	2.66	5	
MISB	CONDO		586	1 50	879	
				•	3,458	Total

2007

2007	,							
Connec	tions						occupancy	
		Q1	Q2	Q3	Q 4	Average	factor	population
Basin	Cust Class	Count /	Count	Count	Count	71101495	120101	population
MILW	C-CONDO/APT	264	264	265	265			
MILW	R Residential	5,024	5 034	5,042	5 046	5.037	2 69	10.540
101677	TY TYESICE HUGI	3,024	3.034	5,042	3.040	5.037	2 09	13,548
MISB	C COMPOMET	500	24.4					
	C-CONDO/APT	598	611;	619	644			
MISB	R Residential	2.733	2,737	2.737	2.738	2,736	2.69	7,361
2008	}							
Connec	tions						occupancy	
		Q1	Q2	Q3	Q4	Average	factor	population
Basin	Cust Class	Count	Count	Count	Count	Avelage	Tactor	population
MILW	C-CONDO/APT		<u>ـروناريزي علي</u> 268:					
		265	والسوور ومواري	270	270			
MILW	R Residential	5,056	5,060	5 069	5,074	5,065	2.69	13,624
	ing Tigging to the total of the second							
MISB	C-CONDO/APT	654	661	668	672	664		-
MISB	R Residential	2,745	2,748	2,753	2,755	2,750	2.69	7,398
2009)							
Connec				-				
Comico	00113	01	02	00	0.4		occupancy	
GD 48:23	Cl Communication	Q1	Q2	Q3	Q4	Average	factor	population
#Basin				Count				
MILW	C-CONDO/APT	271	272	276	277	!	i	
WIĘW	R Residential	5,080	5,083	5,087 ₁	5,092	5,086	2.66	13,527
	-							
MISB	C-CONDO/APT	679	681	685	685			
MISB	R Residential	2,756	2.755	2,760	2.762	2,758	2.66	7,337
		1 11	- " " "			-:- • •		- 100.

MISB

MISB

C-CONDO/APT

R Residential TOTALS

24,115

40,078

21,070

40,272

24,476

51,056

19,038

34,044

88,699

165,450

254,149

3,458

7,337

10,795

64.50

200	7							
Consu	mption (thousand ga	allons)						Per capita
		Q1	Q2	Q3	Q4	Total	population	gals/day
Basin	Cust Class		Cons	Cons	Cons	. • . • .	population	gaisiday
MILW	C-CONDO/APT	12,803	13,873	14,777	13,914	55,367	3,189	
MILW	R Residential	72,390	79,898	123,742	84,953	360,983		
	TOTALS					416,350		68.15
MISB	0.001100110=							
MISB	C-CONDO/APT	20,331	21,676	23,832	21,572	87,461	3.131	
MISD	R Residential TOTALS	37,084	40,978	52,849	41,412_	172,323		
	TOTALS					259,784	10,492	67.84
2008	3							
	nption (thousand ga	l'aca)						
0011001	npuon (mousanu ya		00	0.0				Per capita
Basin	Cust Class	Q1 Consall	Q2 Cons,	Q3	Q4	Total	population	gals/day
MILW	C-CONDO/APT	13,966	13,066	Cons 15,970	Cons	·· · ·		
MILW	R Residential	76, 124	73,747	122,459	12,717 71,330	55,719	3,235	
	TOTALS	70,124	13,141	122,409	71,330_	343,660	13,624	
			!		•	399.379	16,859	64.73
MISB	C-CONDO/APT	23,281	19,965	24,947	19,981	88,174	3,363	
MISB	R Residential	40,768	37 165	55,554	34,946	168,433	7,398	
	TOTALS	. ,	• -• (256,607	10,761	65.15
							.0,.0.[00.10
2009								
Consum	iption (thousand gall	ons)					!	Per capita
<u> </u>	T	Q1	Q2	Q3	Q4	Total	population	gals/day
Basin	Cust Class	Cons	Cons.	Cons //	Cons 44	- 1	population	galorday
MILW	C-CONDO/APT	16,122	13,562	15,728	12,695	58,107	3,304	
WiFM	R Residential	72,480	76,820	117,639	70,046	336,985	13,527	
	TOTALS	<u>:</u>				395,092	16,831	64.31

Section:

2

Title:

Residential Occupancy Factors

Reference:

Secs. 17.103(18), 17.208, MMSD Rules, and Appendix A(1.0)(A)

The residential occupancy factor means the average number of people residing in each residential housing unit. The 2009 residential occupancy factor assigned to each municipality is based on housing and population data as of January I, 2008, and further explained in Section 5 of this manual.

MMSD relies on municipal user data transmissions and an annual housing unit survey to update the housing unit count reported in the 2000 census. Municipal reports are subject to verification by MMSD as explained in Section 8 of this manual.

Total municipal population as of January 1 is reported in October by the Wisconsin Department of Administration. To determine a residential occupancy factor, total population must be allocated between the residential and commercial sewer user classes. The residential allocation is derived by subtracting commercial population from total population. Commercial population is classified as follows:

 Apartments - Occupancy factors and vacancy rates for metered apartments are from the census. Occupancy factors for unmetered apartments served by MMSD are assigned as follows:

<u>Bedrooms</u>	People/Unit
1	1.5
2	2.5
3	Residential Occupancy Factor
Unknown	2.5

In lieu of using the assigned occupancy factor for apartments, a municipality may report the actual occupant count for each unmetered apartment. This occupant count must include all unmetered apartments and be updated at least once each year.

<u>Mixed Apartment/Business</u> - Includes apartments in mercantile buildings such as stores
or taverns. MMSD assigns an occupancy factor of 1.25 to these apartments. The rental
vacancy rate from the census is used to estimate the number of vacant units.

RESIDENTIAL

Goal: To reduce per capita residential use of water by 20% by 2020.

The 55,000 residential accounts in the City of Madison far exceed the number of commercial, industrial and municipal accounts, though representing only 41% of metered sales.

Water Use Statistics

₹<u>`</u>

Nationwide, daily indoor water use per capita is 69.3 gallons. By installing all high-efficiency fixtures, this daily use drops by about 35% to 45.3 gallons. The breakdown by activity follows:

Table 1: Indoor Water Use (Vickers, 2002)

Use	Gallons Per Capita Per	Gallons Per Capita Per
	Day- Typical	Day-Conservation
Showers	11.6	8.8
Clothes Washers	15.0	10.0
Dishwashers	1.0	0.7
Toilets	18.5	8.2
Baths	1.2	1.2
Leaks	9.5	4.0
Faucets	10.9	10.8
Other Domestic Uses	1.6	1.6
TOTAL	69.3	45.3

In the City of Madison, the residential average daily use per capita (indoor and outdoor) is about 73 gallons per day. By 2020, the City of Madison is expected to have over 245,000 residents, assuming a growth rate of 1.1%. Reducing per capita residential water use by 20% by 2020 would keep total residential water usage approximately equal to, or perhaps slightly less than current rates. The daily average use would need to be about 58 gallons per person. This is the foundation for being able to maintain the current annual pumping rates, which is the overall goal. Progress toward this goal shall be measured using a rolling 5-year average in order to minimize fluctuations due to weather variations.

Water Utility staff recently compared average water use of an established, older neighborhood and a new neighborhood to see if higher-efficient appliances/fixtures in the newer homes have an impact on average water use. Data was derived from a cross-section of 1,029 customers in seven different billing routes, some of which were in the older neighborhoods and some in newer. The results, surprisingly, indicated a near-identical water use between the two neighborhoods. It does not appear that the newer homes exhibit any greater water efficiency than the older homes. It is difficult to determine how much water use can be attributed to irrigation in the larger lot sizes (pervious area) because there seems to be a greater correlation with home size

Table 2-1 -- RESIDENTIAL OCCUPANCY FACTORS

Residential Billing		People per Unit for UC Billings In:			
Alternative	<u>Municipality</u>	<u>2008</u>	<u>2009</u>		
1 - 2 Family	Bayside	2.54	2.53		
	Brookfield	2.80	2.79		
	Brown Deer	2.59	2.58		
	Caledonia	2:13	2.13		
	Fox Point	2.51	2.51		
	Franklin	2.86	2.83		
	Glendale	2.33	2.33		
	Muskego	2.62	2.61		
	🤼 New Berlin	2.69	2.66		
	Oak Creek	2.83	2.80		
	Thiensville	2.33	2.33		
	Wauwatosa	2.31	2.32		
	West Allis	2.39	2.39		
	West Milwaukee	2.16	2.17		
1 - 4 Family	Butler	2.19	2.16		
	Cudahy	2.34	2.31		
•	Elm Grove	2.53	2.52		
	Germantown	2.56	2.54		
	Greendale	2.59	2.58		
	Greenfield	2.47	2.47		
	Hales Corners	2.59	2.60		
	Menomonee Falls	2.50	2.51		
	Mequon	2.68	2.68		
	Milwaukee	2.77	2.79		
	River Hills	2.40	2.43		
	St. Francis	2.47	2.47		
	Shorewood	2.31	2.31		
	Whitefish Bay	2.63	2.64		

CITY OF NEW BERLIN WATER UTILITY PUMPAGE AND CHEMICAL USAGE

2009

					VALL	VALLEY VIEW	VALLEY VIEW	
]		<u> </u>	REGAL MAIN	WELL#7	*	#8 EAST	WELL#9	WELL # 10
JANUARY	10224.0	2072.0	0.0	1065.0	¦ `	15048.0	1	8348.0
FEBRUARY	9847.0	3719.0	0:0	1 2014.0	_	3362.0	l 8991.0	6078.0
MARCH	12454.0	1 3055.0	0.0	[] 2068.0	=	5446.0	10206.0	6736.0
APRIL	9850.0	1 2659.0	0.0	11 885.0	=	13652.0	ll 0.850e l	6426.0
MAY	10856.0	6300.0	0.0	413.0	=	16146.0	10718.0	9065.0
JUNE	13021.0	1546.0	0.0	1479.0	=	18175.0	11372.0	8444.0
JULY	6905.0	4916.0	0.0	1 703.0	=	8384.0	l 5503.0	3781.0
AUGUST	452.0	388.0	0.0	J 255.0	=	325.0	212.0	348.0
SEPTEMBER	0.0	0.0	0.0	0:0	=	0.0	0.0	0.0
OCTOBER	0.0	0.0	0.0	0.0	=	0.0	II 0.0 I	0.0
NOVEMBER	0.0	0:0	0.0	0.0	=	0.0	0.0	0.0
DECEMBER		II 0:0 II	0.0	0.0	=	0.0	l 0.0 l	0.0
TOTAL	======================================	== ===================================	0.0	8882.0	== == == ===== 10	100538.0	66245.0	49226.0
AVG.	6134.1	2304.6	0.0	740.2	w	8378.2	5520.4	4102.2
MAX.	13021.0	6300.0	0.0	2068.0	_	18175.0	11372.0	9065.0
WIN.	0.0	0.0	0.0	0.0		0.0	0.0	0.0
		TOTAL	TOTAL					
	TOTAL	PHOSPHATE	CHLORINE					
JANUARY	= ====================================	== ===================================	=======================================	!! =				
FEBRUARY	44011.0	2240.6	705.8	-				
MARCH	49965.0	2228.7	760.4	-				
APRIL	45530.0	2375.9	721.0	· 				
MAY	53498.0	2571.5	749.2	_				
JUNE	54037.0	2577.0	795.3	_				
JULY	30192.0	1413.2	588.7	_				
AUGUST	1980.0	102.1	105.7	=				
SEPTEMBER	0.0	0:0	0.0	_				
OCTOBER	0.0	0:0 II	0.0	_				
NOVEMBER	0.0	0.0	0.0	_				
DECEMBER		II 0:0 II	0.0	=				
TOTAL	326155.0	15731.2	5169.3	!				

		TOTAL	DAILY	FLOW		(1000's)		Jan-09				
	FOREST	GLEN	ROGERS	GREEN	REGAL	WELL #7	V.V.E. #8	V.V.W. #9	WELL #10	TOTAL	9 4	CL-2
	0.0	376.0	0.0	0.0	0.0	0.0	418.0	204.0	0.90	0.000		
	2 0.0	344.0 0.	242.0	0.0	0.0	0.0	362.0	269.0	20.0	1284.0	61.3	10.7
	3 0.0	376.0	199.0	0.0	0.0	59.0	413.0	203.0	201.0	1418.0	71.8	හ. ල.
- '	0.0	353.0	0.0	0.0	0.0	00	369.0	260.0	195.0	1532.0	54.3 E.	9.7
	5 0.0	345.0	207.0	0.0	0.0	9 6	308.0	200.0	1/8.0	1160.0	38.9	1 .49
~	0.0	379.0	249.0	0.0		5.0	590.0	0.480	208.0	1440.0	9.92	9.0
	7 0.0	390.0	0.0	0.0	9 6	32.0	216.0	262.0	205.0	1703.0	86.3	8.0
~	8 0.0	376.0	0.0	0.0) c)) (0.104	326.0	219.0	1396.0	9.99	0.6
<i>-,</i>	0.0	388.0	203.0	0.0	9 6	9 6	015.0	0.124	292.0	1704.0	82.8	10.9
	Ö	382.0	0.0	0.0	9 0	9 6	0.004	340.0	330.0	1746.0	83.1	102.5
τ-	11 0.0	305.0	0.0) c	9 6	021.0	98.0	307.0	1584.0	63.0	103.9
_		289.0	0.0	000	9 6	0.0	464.0	307.0	274.0	1330.0	62.7	104.5
~		373.0	0.0	0	9 0	9 6	466.0	269.0	275.0	1301.0	0.77	105.1
Ť		385.0	0.0	0.0	9 6	9 6	469.0	316.0	271.0	1429.0	69.3	9.2
T-		376.0	0.0	0	9 0		908.0	421.0	367.0	1782.0	83.6	12.2
F	16 0.0	311.0	0:0	0.0	200) ()	467.0	312.0	351.0	1506.0	72.6	10.2
		306.0	282.0	0.0) C	5.5	0.000	338.0	365.0	1584.0	74.3	10.7
18		254.0	0.0	0.0	0	5 0	0.00	215.0	338.0	1590.0	65.3	9.2
, 		255.0	0.0	0.0	0.0		10.0	207.0	300.0	1259.0	58.6	7.6
50	0.0	224.0	220.0	0.0	0.0	228.0	779.0	309.0	411.0	1574.0	79.1	10.4
21		376.0	36.0	0.0	0.0	59.0	433.0	320.0	249.0	1752.0	83,5	11.4
22	2 0.0	310.0	0.0	0.0	0.0	0.0	715.0	323.0	3.5.C	1548.0	71.3	10.6
. 23		233.0	0.0	0.0	0.0	200	642.0	0.00	9.00 0.00 0.00	1856.0	91.9	12.5
24	0.0	221.0	0.0	0.0	0.0) ; ;	598.0	0.474	227.0	1526.0	77.2	10.4
25		304.0	0.0	0.0	0.0	9 0	20.0	1,00	726.0	1477.0	6.09	හ ල
26		327.0	0:0	0.0	0.0	9 0	5.00	0.75	253.0	1341.0	64.7	9.4
77	0.0	282.0	0.0	0.0	0.0	0	0.504	0.000	0.000	1393.0	76.0	10.6
3, 38		378.0	145.0	0.0	0.0	13.0	528.0	263.0	184.0 0.48.0	1249.0	63.0	8.0 8.0
4 8		322.0	0.0	0.0	0.0	208.0	459.0	30.00	200.0	1677.0	2 2 0	11.1
9 6	0.0	329.0	289.0	0.0	0.0	139.0	486.0	0.000	247.0	1490.0	70.7	11.7
กั		355.0	0.0	0.0	0.0	77.0	514.0	345.0	0.7.2	1/86.0	86.5 0.00	10.7
TOTAL	00	10224.0	0 0200						0.52	1313.0	62.3	10.3
MAX.	0.0	390.0	280.0	0.0	0.0	1065.0	15048.0	10185.0	8348.0	46942.0	22222	743.7
Ž.	0.0	221.0	36.0	9 6	0.0	278.0	715.0	486.0	411.0	1856.0	1	Y. C.
AVG.	0.0	326.0	2, 5, 2, 5, 3, 5,	0 0	0.0	13.0	309.0	215.0	178.0	1160.0		
				9		9.09 0.09	494.8	333.3	277.0	1514.3		
HIGH DAY	<u>GALLONS</u> 1856.0	DATE 22-Jan	DAY Thur									
> V V W O I	7		,									
EQUA DA	1.160.0	4-Jan	Sun.									

	P0-4 CL-2			75.0 10.1																			76.6 8.1				72.8 11.9				58.0 9.4			0.0 0.0	2240 6 705 8							
	TOTAL		0.014	1317.0	1772.0	1512.0	1684.0	1720.0	0.627	1560.0	1335.0	1525.0	1322.0	1641.0	1948.0	1509.0	1575.0	1334.0	1447.0	1594.0	1555.0	1867.0	1584.0	1741.0	1289.0	1331.0	1516.0	1650.0	2101.0	1689.0	1474.0	0.0	0.0	0.0	44011.0	21010	1280.0	14107				
	WELL #10		0.022	227.0	240.0	224.0	0.520	2000	203.0	219.0	2.8.0	242.0	238.0	36.0	265.0	231.0	204.0	217.0	232.0	234.0	233.0	241.0	240.0	241.0	190.0	220.0	237.0	274.0	191.0	116.0	215.0	0.0	0.0	0.0	6078.0	2740		36.0 4 20.0	35.0			
Feb-09	.w.v.w #9		0.015	284.0	385.0	339.0	335.0	207.0	0.762	335.0	736.0	325.0	313.0	63.0	338.0	317.0	279.0	289.0	334.0	349.0	361.0	373.0	362.0	390.0	272.0	315.0	345.0	356.0	332.0	354.0	337.0	0.0	0.0	0.0	8991.0	390.0	63.0	05.50 0.50 0.50	6000			
	V.V.E. #8		406.0	419.0	563.0	501.0	506.0	435.0	2 6	500.0	0.01	478.0	464.0	92.0	497.0	483.0	415.0	429.0	490.0	505.0	535.0	579.0	543.0	591.0	404.0	458.0	505.0	542.0	475.0	537.0	508.0	0.0	0.0	0.0	13362.0	591.0	9 6	32.0 425.4	† 9			
(1000's)	WELL #7	0.0	2 5.	69.0	21.0	82.0	98.0	200	7,00	143.U	0.57	117.0	0.0	0.0	86.0	0.0	103.0	106.0	74.0	156.0	62.0	42.0	118.0	0.0	89.0	0.0	83.0	101.0	162.0	76.0	62.0	0.0	0.0	0.0	2014.0	162.0	42.0	4.0 7.4.0	Š			
	REGAL))	0.0	0.0	0.0	0	9 6) (0.0	2 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	òc	9 0	9			
FLOW	GREEN		0.0	0.0	0.0	0.0	C	9 6	9 0	0.0	o 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9 0	9			
DAILY	ROGERS		0.0	3.0	225.0	5.0	166.0	471.0	? ?	0.0))	1.0	0.0	1345.0	446.0	135.0	261.0	0.0	12.0	0.0	0.0	234.0	0.0	164.0	0.0	7.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0:0	3719.0	1345.0	0.60	124.7	1	DAY Thrus.	Ç.	5
TOTAL	GLEN		244.0	315.0	338.0	3610	368.0	207.0	200	357.U	0.000	362.0	307.0	105.0	316.0	343.0	313.0	293.0	305.0	350.0	364.0	398.0	321.0	355.0	334.0	331.0	346.0	377.0	941.0	368.0	352.0	0.0	0.0	0.0	9847.0	941.0	105.0	316.9		DATE 26-Feb	22-Feh	- 11
	FOREST		9	0.0	0.0	0.0	0		e c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0:0		0.0	0.0					0.0		0.0	0.0	9	9 0	?	GALLONS 2101.0	1289.0	
		•	-	2	m	4	LC?	υ (1 (~ c	•	ЭD (0.	-	12	13	4	15	16	17	18	91	20	21	22	23	24	25	26	27	28	29	8	31	TOTAL	MAX	Z	AVG.	i	HIGH DAY	LOW DAY	: 60 : 50

	}																																						
	CL-2	12.6	11.3	13.4	52.6	13,8	11.2	11.0	6.6	106.3	107.6	105.6	106.1	1.8	9.7	9.7	12.4	11.7	11.9	11.2	12.2	6.9	10.1	12.9	7.5	10.7	12.0	11.1	89 90	0.0	7.1	12.8	760.4						
	P04	71.4	73.9	89.9	75.5	86.9	85.8	38.3	4 ε.	44.3	62.9	62.8	79.6	73.6	71.5	62.3	81.9	87.9	87.4	82.4	77.2	63.4	64.6 64.6	81.0	71.6	87.3	87.0	74.2	54.4	73.1	67.2	62.1	2228.7						
	TOTAL	1448.0	1303.0	1781.0	1508.0	1714.0	1687.0	1558.0	1385.0	1362.0	1529.0	2266.0	1700.0	1587.0	1579.0	1286.0	1315.0	1658.0	1661.0	1612.0	1567.0	1540.0	1326.0	1386.0	2710.0	2274.0	1721.0	1514.0	1466.0	1421.0	1270.0	1831.0	49965.0	2710.0	1270.0	1611.8			
	WELL #10	202.0	220.0	225.0	228.0	254.0	228.0	227.0	192.0	228.0	217.0	227.0	223.0	221.0	173.0	199.0	216.0	212.0	213.0	221.0	217.0	206.0	200.0	225.0	227.0	222.0	219.0	259.0	199.0	197.0	182.0	257.0	6736.0	259.0	173.0	217.5			
Mar-09	.w.v.v #9	294.0	287.0	352.0	364.0	386.0	350.0	357.0	278.0	306.0	335.0	328.0	365.0	355.0	339.0	291.0	308.0	331.0	332.0	352.0	352.0	327.0	286.0	333.0	293.0	375.0	344.0	315.0	316.0	281.0	305.0	369.0	10206.0	386.0	278.0	331.2			τ
	V.V.E. #8	440.0	412.0	538.0	547.0	575.0	510.0	545.0	416.0	491.0	495.0	482.0	555.0	584.0	515.0	437.0	413.0	516.0	516.0	510.0	543.0	498.0	430.0	453.0	474.0	569.0	528.0	522.0	479.0	423.0	425.0	605.0	15446.0	605.0	413.0	502.0			
(1000's)	WELL #7	0:0	36.0	127.0	0.0	27.0	61.0	73.0	0.0	0.0	105.0	899.0	26.0	84.0	0.0	0.0	0.0	0.0	0.0	36.0	61.0	0.0	51.0	32.0	26.0	43.0	68.0	48.0	102.0	0.0	7.0	156.0	2068.0	899.0	7.0	68.0			
	REGAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0:0	0.0	0.0	0.0			
FLOW	GREEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0			
DAILY	ROGERS DRIVE	160.0	7.0	167.0	16.0	128.0	190.0	0.0	146.0	7.0	0.0	0.0	164.0	0.0	206.0	0.0	0.0	231.0	231.0	165.0	0.0	148.0	0.0	0.9	48.0	707.0	172.0	0.0	0.0	148.0	8.0	0.0	3055.0	707.0	7.0	97.2	DAY	Tues	Mon.
TOTAL	GLEN	352.0	341.0	372.0	353.0	344.0	348.0	356.0	353.0	330.0	377.0	330.0	367.0	343.0	346.0	359.0	378.0	368.0	369.0	328.0	394.0	361.0	359.0	337.0	1642.0	358.0	390.0	370.0	370.0	372.0	343.0	444.0	12454.0	1642.0	328.0	406.8	DATE	24-Mar	30-Mar
	FOREST VIEW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	GALLONS	2710.0	1270.0
		· -	7	ო	4	Ŋ	ဖ	~	æ	တ	5	11	12	13	4	15	16	17	18	9	20	21	22	23	24	25	26	27	28	59	30	ည	ا پ	. •		قيد .		DAY	DAY
																																	∠	Ş	Z	Ó		뷔	9

TOTAL MAX. MIN. AVG.

HIGH DA

	CL-2	9.7 9.7 9.0 10.	721.0
	Q	65.9 68.0 68.0 68.0 7.1.5 7.1.5 7.1.5 7.2.3 86.0 60	2375.9
	TOTAL	1411.0 1390.0 1390.0 1355.0 1361.0 1613.0 1704.0 1637.0 1728.0 1728.0 1728.0 1728.0 1728.0 1728.0 1728.0 1728.0 1729.0 1733.0 1763.0 1718.0 1718.0 1718.0 1718.0 1718.0 1718.0 1718.0 1718.0 1718.0	45530.0 1846.0 1202.0 1468.7
	WELL #10	201.0 214.0 162.0 150.0 197.0 235.0 229.0 65.0 229.0 199.0 199.0 195.0 197.0 221.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 224.0 226.0 226.0 226.0 226.0 226.0 226.0 226.0 226.0 226.0 226.0 227.0 226.0 206.0 2	6426.0 302.0 65.0 208.9
Apr-09		304.0 329.0 232.0 241.0 343.0 343.0 275.0 366.0 282.0 282.0 282.0 282.0 282.0 282.0 343.0 343.0 345.0	9058.0 387.0 106.0 292.6
	V.V.E. #8	434.0 434.0 366.0 366.0 468.0 500.0 436.0 522.0 183.0 423.0 423.0 423.0 423.0 525.0 525.0 525.0 525.0 525.0 525.0 525.0 526.0 527.0 474.0 474.0 578.0 60.0	13652.0 598.0 183.0 442.0
(1000's)	WELL #7	159.0 0.0 0.0 0.0 0.0 0.0 87.0 66.0	885.0 107.0 1.0 25.9
	REGAL		0.0.00
FLOW	GREEN		0000
DAILY	ROGERS DRIVE	0.0 456.0 565.0 279.0 448.0 148.0 201.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 968.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97	5659.0 968.0 97.0 185.8 <u>DAY</u> Fri.
TOTAL	GLEN	343.0 365.0 385.0 0.0 0.0 0.0 387.0 382.0 382.0 382.0 382.0 382.0 382.0 382.0 382.0 388.0 389.0 399.0 30 30 30 30 30 30 30 30 30 30 30 30 30	9850.0 412.0 33.0 313.8 DATE 24-Apr 13-Apr
	FOREST VI EW	0.0000000000000000000000000000000000000	0.0 0.0 0.0 0.0 1846.0
			TOTAL MAX. MIN. AVG. HIGH DAY

	CL-2	80 80	7.6	, c	, t	- 6	3.0	— ე.ი	11.7	11.7	111.1	106.8	108.6	110.3	11.9	9.0	10.6	10.3	6	4	12.6	2.1	2 0	ල ල - ල	200	5.5	10.7	117		. T	12.2	8	10.9	749.2	1						
	9 4	105.5	108.3	60%	γ 1 α 1 α	2 2	0.40	103.6	85.1	87.0	86.0	62.2	74.1	91.6	100.4	119.9	75.3	85.4	62.8	79.4	82.6	82.6	83.1	105.2	55.1	51.8	51.5	983	20.2	28	96.0	67.7	8.5	2571.5	;						
	TOTAL	1810.0	1854.0	13020	1492.0	0.000	O.5.	2134.0	1730.0	1759.0	1921.0	1322.0	2361.0	1880.0	1965.0	2077.0	1411.0	1659.0	1378.0	1350.0	1898.0	1897.0	1891.0	2075.0	1763.0	1458.0	1458.0	1506.0	1709.0	1728.0	1482.0	1686.0	1693.0	53498.0	2361.0	2007	1302.0	1725.7			
	WELL #10	179.0	111.0	49.0	275.0	7 0	0.752	266.0	266.0	286.0	261.0	216.0	1234.0	271.0	311.0	62.0	295.0	286.0	235.0	373.0	325.0	325.0	314.0	3640	0 662	240.0	244.0	265.0	305.0	297.0	320.0	285.0	249.0	9065.0	1220.0	2.0	0.94 0.03	311.6			
May-09	.v.v.w. #9	238.0	127.0	63.0	259.0	0.007	423.0	333.0	422.0	443.0	436.0	331.0	342.0	468.0	361.0	101.0	375.0	385.0	298.0	335.0	414.0	4140	393.0	423.0	414.0	324.0	322.0	3410	392.0	408.0	405.0	387.0	339.0	10718.0	468.00	2.5	93.0	367.5			
	V.V.E. #8	345.0	188.0	6	384 0	0.00	0.000	505.0	649.0	659.0	683.0	506.0	521.0	746.0	540.0	176.0	363.0	299.0	458.0	520.0	642.0	642.0	643.0	704.0	662.0	505.0	501.0	520.0	612.0	631.0	351,0	613.0	531.0	16146.0	746.0	2 6	⊃ ` > ¦	554.4			
(1000's)	WELL #7	0.0	0.0	0	0	o c	0.0	320.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	413.0	320.0	2.00	9.0	8.4			
	REGAL	0.0	0.0	0	0		0 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0'0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000	9 6) ()	0.0			
FLOW	GREEN	0.0	0.0	C) C	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0) c	9 6	0.0			
DAILY	ROGERS DRIVE	819.0	1260.0	1060.0	224.0	777	5.6	316.0	0.0	0.0	157.0	0.0	8.0	0.0	360.0	1443.0	0.0	0.0	0.0	0.0	0.0	0.0	153.0	185.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171.0	6300.0	1443.0	2.5	0.0	112.9	DAY Mon.		Sun.
TOTAL	GLEN	229.0	168.0	39.0	350.0	267.0	0.700	394.0	393.0	371.0	384.0	269.0	256.0	395.0	393.0	202.0	378.0	389.0	387.0	122.0	517.0	516.0	388.0	399.0	388.0	389.0	391.0	380.0	400.0	392.0	406.0	401.0	403.0	10856.0	517.0	2 0	33.0	3/2.1	DATE 11-May	ı	3-Мау
	FOREST VIEW	0.0	0.0	C	0		9 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0'0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9 6	0.0	GALLONS 2361.0		1302.0
		_	8	67	4	. น	· ·	<u>م</u>	7	œ	Ø	5	=	12	5	41	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	ଚ	31	TOTAL	MAX.	Z	. (V)	A G	HIGH DAY		LOW DAY

	CL-2	12.2	11.7	9.2	79.7	15.1	10.3	10.2	11.2	108.1	107.2	108.0	109.9	10.7	10.4	12.5	13.9	11.5	11.4	11.5	9.2	10.6	11.6	11.4	12.6	11.4	12.7	6.3	6.6	ტ. ტ	12.0	0.0	795.3						
	PO-4	88.1	82.8	84.5	89.6	99.1	72.5	70.3	82.1	80.7	65.4	86.5	8.76	73.0	74.4	92.1	92.1	108.0	81.7	92.3	71.9	6.69	80.6	100.0	94.5	96.9	96.4	101.0	78.9	87.5	86.4	0.0	2577.0						
	TOTAL	1572.0	1724.0	1773.0	1862.0	1989.0	1797.0	1483.0	1474.0	1734.0	1729.0	1802.0	1892.0	1760.0	1584.0	1710.0	2073.0	1987.0	1700.0	1956.0	1715.0	1505.0	1507.0	1977.0	2239.0	2021.0	2036.0	2224.0	1670.0	1603.0	1939.0	0.0	54037.0	2239.0	1474.0	1743.1	,		
	WELL #10	281.0	288.0	310.0	339.0	331.0	312.0	241.0	262.0	347.0	223.0	309.0	238.0	305.0	282.0	299.0	287.0	217.0	241.0	350.0	205.0	0.0	0.0	365.0	320.0	391.0	408.0	350.0	317.0	298.0	328.0	0.0	844.0	408.0	205.0	270.2			
90-unf	.w.v.w. #9	341.0	412.0	395.0	424.0	395.0	407.0	319.0	328.0	376.0	418.0	404.0	333.0	394.0	337.0	376.0	365.0	310.0	378.0	444.0	409.0	376.0	382.0	424.0	369.0	425.0	382.0	417.0	345.0	341.0	346.0	0.0	11372.0	444.0	310.0	365.1			
	V.V.E. #8	527.0	633.0	657.0	684.0	658.0	0.099	503.0	489.0	589.0	665.0	656.0	509.0	636.0	536.0	610.0	595.0	468.0	618.0	715.0	659.0	584.0	585.0	685.0	590.0	695.0	642.0	686.0	558.0	529.0	554.0	0.0	18175.0	715.0	468.0	584.2			
(1000,s)	WELL #7	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	341.0	0.0	0.0	0.0	0.0	103.0	112.0	29.0	408.0	71.0	128.0	0.0	0.0	1.0	255.0	0.0	1479.0	408.0	0.7	52.8			
	REGAL	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
FLOW	GREEN	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0			
DAILY	ROGERS	0	0.0	0.0	0.0	159.0	0.0	0.0	0.0	0.0	0.0	7.0	389.0	0.0	0.0	0.0	0.0	0.099	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	322.0	0.0	0.0	0.0	0.0	1546.0	0.099	8.0	64.9	Ž	Wed	Mon.
TOTAL	GLEN	415.0	391.0	411.0	415.0	446.0	418.0	420.0	395.0	422.0	423.0	426.0	422.0	425.0	429.0	425.0	485.0	332.0	463.0	447.0	442.0	442.0	428.0	44 0.44	552.0	439.0	475.0	449.0	450.0	434.0	456.0	0.0	13021.0	552.0	332.0	437.2	i F	24-Jun	8-Jun
	FOREST VIEW		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	940	2239.0	1474.0
		•	2	m	4	ഗ	9	7	80	ത	10	=	12	13	14	15	16	17	18	91	20	21	22	23	24	25	26	27	28	. 59	8		TOTAL	MAX.	Z Z	AVG.		HIGH DAY	LOW DAY

. TOTAL PO-4 CL-2		1501.0 95.4	1873.0 89.9	2150.0 65.9	1763.0 55.0	1533.0 46.8	1808.0 53.6	2211.0 114.0	2321.0 125.9	2176.0 114.3	2370.0 128.0	2104.0 102.1	1325.0 64.0 107.0	2352 120.3 2352 0 1120.5	251.0 15.1	211.0 10.6	48.0 1.8	0.0 0.0	0.0 0.0	0.0	0.0	58.0 3.0	554.0 26.7	270.0	0.0	0.0 0.0	110.0 3.6	548.0 22.7 2.1	. C	352.0 47.1 3.0 1.0 0.3 0.1	[[2370.0	0.1			
Jul-09 V.V.W. WELL	#10 #10					323.0 238.0	397.0 298.0						324.0 173.0	24.0 180.0		49.0												_		0.0	 	428.0 326.0	24.0 8.0	154.2 103.2		
>	8# 2	0 159.0					0 643.0						0.11.0																•	1.0	3.0 8384.0		1.0			
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Well pumping Report

Date	FOREST	GLEN	ROGERS	GREEN	REGAL	N.A.	V.V.E.	v.v.w.	W.R,	Well	Total
	VIEW	PARK_	DRIVE	RIDGE	MAIN	#7	#8	#9	#10	#11	
1	0	0	0	0	0	0	205	138	0	0	343
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	4	0	0	0	0	0	0	61	0	65
6	0	299	314	0	0	255	108	73	231.	0	1280
7	0,	149	74	0	0	0	0	0	56	0	279
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	1	0	0	0	0	1
11	0	0	0	0	0	1	0	0	0	0	1
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17	0	0	0	0	0	0	0	0	0	0	0,
18	0	0	0	0	0	6	0	0	0	0	6
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	7	0	1	0	0	8
23	0	. 0	0	0	0	0	0	0	0	0	0
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27	0	0	0	0	0	20	0	0	0	0	20
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29	0	0	0	0	0	0	0	0	0	0	0
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Well pumping Report

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13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	- 0	0	0	0	0	0	0	0	0	0	0
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20	0	0	0	0	0	0	0	0	0	0	0
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22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
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Well pumping Report

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23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0			0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
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Toilet Rebate Program

High Efficiency Tollet Rebate Program beginning April 1, 2010

The City of New Berlin Water & Sewer Utilities are sponsoring a tollet rebate program to encourage customers to replace their old tollets with high efficiency water-wise low-flow tollets.

How much can you save?

If you currently have a 5 gallon per flush tollet and replace it with a 1.3 gallon toilet, based on 10 flushes per day, the savings are 13,505 gallons per year. At current water and sewer rates, that means an average annual reduction of \$46.31 on your water bill and \$23.61 on your sewer bill for a total savings of \$69.92.

The program is limited to 300 toilet replacements and Is on a first come first serve basis. Tollets much be purchased between January 1 and December 31, 2010. Amount of each rebate is \$100. To qualify:

- You must be a current New Berlin Water or Sewer Utility customer
- A Permit Fee of \$25 and a Tech Fee of \$2 must be applied for and paid prior to Installation. Upon installation an inspection must be made by the City of New Berlin to ensure that the tollet was replaced with an approved model. Only 1 permit and tech fee is needed per customer.
- Make and model of toilet purchased needs to be from the Water Sense approved list
- Limit of 2 tollet rebates per customer
- Original receipts (dated between January 1 & December 31, 2010) must be presented along with the completed application form
- Tollet installation is not included.
- An Inspector must verify a qualifying Water Sense Tollet was installed prior to your rebate being approved. Call the Inspection Department for further details (262) 797-2445
- The check amount will not exceed the purchase price of tollet
- You are responsible for disposal of your old tollet*
- Please allow 4-6 weeks for your rebate check to be mailed

Toilets can be purchased at many local home improvement and hardware stores or through a plumbing contractor.

For further information, please contact the Utility office at (262) 786-7086

*Check with your installer for tollet disposal options or contact your garbage disposal contractor. Veolia will take tollets for free if you take the tank off. Waste Mgt. will pick them up for \$50.00.

For further information, please contact the Utility office at (262) 786-7086

City Hall located at 3805 S. Casper Drive New Berlin, WI 53151 Ph; (262) 786-8610 Hrs: Monday-Friday 8:00 am-4:30 pm

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Lawn Sprinkling Schedule

Lawn Sprinkling Water Conservation Schedule

The City of New Berlin Utility Department is asking customers to gear up for a dry summer by following the Lawn Sprinkling Water Conservation Schedule all year round.



This lawn sprinkling water conservation schedule will assure that the Utility will have sufficient water resources to meet the needs of the customer and have a good supply in the reservoirs for fire protection, without adding additional strain on our pumps. We are asking residents to sprinkle only on even and odd days (depending on your address). Please help us conserve our water resources.

Please follow the Lawn Sprinkling Water Conservation Schedule below:

EVEN numbered addresses (i.e. 2500, 2502, 2504), water on EVEN days of each month, (2nd, 4th, 6th, etc)

ODD numbered addresses (i.e. 2501, 2503, 2505), water on ODD days of each month (1st, 3rd, 5th, etc.)

- Light hand watering of annuals and perennials or your garden are permitted at any time.
- Special permits for the watering of newly installed lawns may be obtained from the Utility Department

For forther information on how and when to sprinkling, check out http://www_acmehowto.com/howto/garden/lawn/lawnwater.php



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For further information please call the Utility office at 262-786-7086. Thank you.

City Hall located at 3805 S. Casper Drive New Berlin, WI 53151 Ph: (262) 786-8610 Hrs: Monday-Friday 8:00 am-4:30 pm

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Authorized Water Rates/Rules

Docket 4090-WR-101

Appendix C

New Berlin Water Utility

Authorized Water Rates and Rules

Public Fire Protection Service - - - F-1

The annual charge for public fire protection service to the City of New Berlin shall be \$759,269.

This service shall include the use of hydrants for fire protection service only and such quantities of water as may be demanded for the purpose of extinguishing fires within the service area. This service shall also include water used for testing equipment and training personnel. For all other purposes, the metered or other rates set forth, or as may be filed with the Public Service Commission, shall apply.

Private Fire Protection Service - Unmetered - - - Upf-1

This service shall consist of permanent or continuous unmetered connections to the main for the purpose of supplying water to private fire protection systems such as automatic sprinkler systems, standpipes, and private hydrants. This service shall also include reasonable quantities of water used for testing check valves and other backflow prevention devices.

Quarterly Private Fire Protection Service Demand Charges:

1-inch connection	\$12.00
2-inch connection	\$12.00
3-inch connection	\$21.00
4-inch connection	\$36.00
6-Inch connection	\$72.00
8-Inch connection	\$114.00
10-inch connection	\$162.00
12-inch connection	\$210.00

Billing: Same as schedule Mg-1

General Service ~ Metered - - - Mg-1

Quarterly Service Charges:

⁵ / ₈ -inch meter	\$20.60	3-inch meter	\$136.33
3/4-inch meter	\$20.60	4-inch meter	\$224.18
1-Inch meter	\$32.12	6-inch meter	\$330.21
1 ¹ / ₄ -inch meter	\$41.81	8-inch meter	\$496.83
1 ¹ / ₂ -inch meter	\$51.50	10-Inch meter	\$714.94
2-inch meter	\$77.25	12-inch meter	\$933.06

Plus Volume Charge:

First 35,000 gallons used per quarter - \$3.43 per 1,000 gallons

Next 465,000 gallons used per quarter - \$3.33 per 1,000 gallons

Over 500,000 gallons used per quarter - \$2.48 per 1,000 gallons

Billing: Bills for water service are rendered quarterly and become due and payable upon issuance following the period for which service is rendered. A late payment charge of 1 percent per month will be applied to the total unpaid balance for utility service, including unpaid late payment charges. This late payment charge is applicable to all customers. The utility customer may be given a written notice that the bill is overdue no sooner than 20 days after the bill is issued. Unless payment or satisfactory arrangement for payment is made within the next 10 days, service may be disconnected pursuant to Wis. Admin.

Combined Metering: Volumetric meter readings will be combined for billing if the utility for its own convenience places more

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than one meter on a single water service lateral. Multiple meters placed for the purpose of identifying water not discharged into the sanitary sewer are not considered for utility convenience and shall not be combined for billing. This requirement does not preclude the utility from combining readings where metering configurations support such an approach. Meter readings from individually metered separate service laterals shall not be combined for billing purposes.

Non-Sufficient Funds Charge - - - NSF-1

A \$25.00 charge will be applied to the customer's account when a check rendered for utility service is returned for non-sufficient funds. This charge may not be in addition to, but may be inclusive of, other non-sufficient funds charges when the check was for payment of multiple

Billing: Same as Schedule Mg-1

Public Service - - - Mpa-1

Water service supplied to municipal buildings, schools, sewer treatment plants, etc. shall be metered and the regular metered service rates applied.

Water used on an Intermittent basis for flushing sewers, street sprinkling, flooding skating rinks, drinking fountains, etc., shall be metered where meters can be set to measure the service. Where it is impossible to measure the service, the superintendent shall estimate the volume of water used based on the pressure, size of opening, and period of time water is allowed to be drawn. The estimated quantity shall be billed at the rate of \$3.30 per 1,000 gallons.

Billing: Same as Schedule Mg-1

General Water Service - Unmetered - - - Ug-1

Where the utility cannot immediately install its water meter, service may be supplied temporarily on an unmetered basis. Such service shall be billed at the rate of \$78.20 per quarter. This rate shall be applied only to single family residential and small commercial customers and approximates the cost of 17,000 gallons of water per quarter under schedule Mg-1. If it is determined by the utility that usage is in excess of 19,000 gallons of water per quarter, an additional charge will be made for the estimated additional usage.

Billing: Same as Schedule Mg-1

Standby Water Service - - - Sws-1

A standby charge shall apply to each lot or equivalent parcel of land* for which water system facilities are available but not connected. Where more than one lot or equivalent is used as a unit and a customer is connected, the total charge for water service to customer shall be not less than the standby charge applicable to several lots.

Each lot or equivalent parcel of land - \$8.00 per quarter.

Billino: Same as Schedule Mg-1

*An equivalent parcel of land shall be each full 100 feet where unplatted. (Example: An unplatted 480 foot piece of land would be 4 equivalent parcels.) Also, any isolated parcel of less than 100 feet shall be equivalent to a lot.

Seasonal, Emergency, or Temporary Service - - - Mgt-1

Seasonal Customers* shall pay an annual seasonal service charge equal to four times the applicable service charge in Schedule Mg·1. Water use in any billing period shall be billed at the applicable volume rates in Schedule Mg·1 and the charge added to the annual seasonal service charge.

In addition, customers who have an additional meter pursuant to Schedule Am-1 shall also pay an annual seasonal rental charge equal to four times the applicable additional meter rental charge in Schedule Am-1.

Further, if service has been disconnected or a meter removed, a charge under Schedule R-1 shall be applied at the time of reconnection or meter reinstallation.

*Seasonal customers are general service customers whose use of water is normally for recurring periods of less than a year. This includes service under Schedule Mg-1 and/or Schedule Am-1.

Billing: Same as Schedule Mg-1.

Building and Construction Water Service - - - Mz-1

For single family and small commercial buildings, apply the unmetered rate (Schedule Ug-1).

For large commercial, industrial, or multiple apartment buildings, a temporary metered installation shall be made and general metered rates (Schedule Mg-1) applied.

Billing: Same as Schedule Mg-1.

Bulk Water - - - BW-1

All bulk water supplied from the water system through hydrants or other connections shall be metered, or at the direction of the utility, estimated. Utility personnel or a utility-approved party shall supervise the delivery of water.

Bulk water sales are:

- 1. Water supplied by tank trucks or from hydrants for the purpose of extinguishing fires outside the utility's immediate service area.
- 2. Water supplied by tank trucks or hydrants for purposes other than extinguishing fires, such as irrigation or the filling of swimming
- Water supplied from hydrants or other temporary connections for general service type applications. (Water supplied for construction purposes – see Schedule Mz-1)

A charge for the volume of water used will be billed to the party using the water at \$3.40 per 1,000 gallons. A service charge, in addition to the volumetric charge, will be \$40.00. In addition, for hydrant meters that are in place for more than 30 days, the applicable service charge in Schedule Mg-1 will apply, prorated for the period in excess of 30 days that the meter is in place.

The water utility may require reasonable deposits for consistent application for the temporary use of its equipment under this and other rate schedules. The deposit(s) collected will be refunded upon return of the utility's equipment. Damaged or lost equipment will be repaired or replaced at the customer's expense.

Billing: Same as Schedule Mo-1.

Reconnection Charges - - - R-1

During Normal Business Hours After Normal Business Hours

Reinstallation of meter, including valving at curb stop \$40.00 \$60.00 Valve turned on at curb stop \$30.00 \$50.00

Note: No charge for disconnection.

Billing: Same as Schedule Mg-1.

Water Lateral Installation Charge - - - Cz-1

Subdivision developers shall be responsible, where the main extension has been approved by the utility, for the water service lateral installation costs from the main through the curb stop and box.

When the cost of a utility main extension is to be collected through assessment by the municipality, the actual average water lateral installation costs from the main through the curb stop and box shall be included in the assessment of the appropriate properties.

The Initial water service lateral(s), not installed as part of a subdivision development or an assessable utility extension, will be installed from the main through the curb stop and box by the utility, for which the actual cost will be charged.

Billing: Same as Schedule Mg-1.

Rules and Regulations --- X-1

Delete Schedule X-1 through X-17. Incorporate the operating rules for municipal water utilities as provided by the public service commission.

Water Main Extension Rules - - - X-2

Water Mains will be extended for new customers on the following basis:

- Where the cost of the extension is to immediately be collected through assessment by the municipality against the abutting property, the procedure set forth under Wis. § 66.0703 will apply, and no additional customer contribution will be required.
- Where the municipality is unwilling or unable to make a special assessment, the extension will be made on a customer financed basis as follows:
 - The applicant(s) will advance as a contribution in aid of construction the total amount equivalent to that which would have been assessed for all property under A.
 - 2. Part of the contribution required in B.1 will be refundable. When additional customers are connected to the extended main within 10 years of the date of completion, contributions in aid of construction will be collected equal to the amount of which would have been assessed under A. for the abutting property being served. This amount will be refunded to the original contributor(s). In no case will the contributions received from additional customers exceed the proportionate amount which would have been required under A., nor will it exceed the total assessable cost of the original extension.
- When a customer connects to a transmission main or connecting loop installed at utility expense within 10 years of the date of completion, there will be a contribution required of an amount equivalent to that which would have been assessed under A.

Water Main Installations in Platted Subdivisions - - - X-3

Application for installation of water mains in regularly platted real estate development subdivisions shall be filed with the utility.

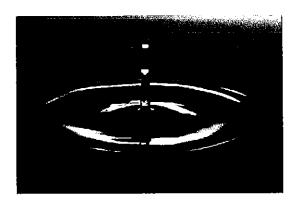
If the developer, or a contractor employed by the developer, is to Install the water mains (with the approval of the utility), the developer shall be responsible for the total cost of construction.

If the utility or its contractor is to install the water mains, the developer shall be required to advance to the utility, prior to the beginning of construction, the total estimated cost of the extension. If the final costs exceed estimated costs, an additional billing will be made for the balance of the cost due. This balance is to be paid within 30 days. If final costs are less than estimated, a refund of the overpayment will be made by the water utility.

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City of New Berlin Water Conservation Plan





Prepared By: Gregory W. Kessler, AICP
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Department of Community Development
(With assistance from the New Berlin Mayor's Office, Department of Community Development staff,
Utility Department and Utility Committee)

Adopted by the New Berlin Common Council on 12/8/09

WATER CONSERVATION PLAN MISSION STATEMENT

To promote water conservation and protection measures throughout the City of New Berlin to ensure a viable and healthy water supply for future generations.

Goals:

- Reduce overall water consumption.
- Enact water protection / conservation ordinances and codes.
- o Protect wellhead recharge areas.
- o Provide incentives for water conservation.
- Promote 3-Dimensional (groundwater, storm water and surface-water) water management.
- Implement good storm water Best Management Practices ("BMPs") that enhance recharge areas.

INTRODUCTION

This document presents the City of New Berlin's ("City") Water Conservation Plan. Over the years, the City, as well as the Southeastern Wisconsin Regional Planning Commission (SEWRPC) have conducted a number of water supply studies. All of these studies are referenced in one form or another throughout this document.

New Berlin is uniquely positioned within southeast Wisconsin as it straddles the "Sub-Continental Divide", which runs north-south through the eastern part of the City. Nearly 27 square miles in the western part of the City, or about 73 percent of the City's total land area, is located in the Fox River Watershed. This portion is west of the Sub-Continental Divide and part of the Mississippi River Watershed. The remaining City land area is tributary to the Great Lakes / St. Lawrence River drainage basin.

The Utility Service Area is supplied with water from Lake Michigan which is purchased from the Milwaukee Water Works. In this portion of the City wastewater is returned to Lake Michigan via the Milwaukee Metropolitan Sewerage District sewer system. The western portions of the City, outside of the Utility Service Area, use groundwater / private wells as their water supply source. Four municipal wells are being maintained to act in a reserve capacity. The groundwater that is acquired from these wells is found in two distinct shallow water bearing geologic formations or aquifers. The water from these aquifers is radium compliant.

New Berlin is located within Waukesha County, one of the fastest growing counties within the southeast Wisconsin region. The County's population in 2005 was 377,348. New Berlin is the sixth largest city in terms of land area in the state and the third most populated municipality in the County with a 2005 population of 38,969. Population trends for New Berlin indicate an approximate two to three percent increase in five year increments out to 2020. At that point in time, the estimated New Berlin population is expected to be 42,228. The City has experienced steady, moderate growth over the past 20 years.

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There are three City entities that are involved with water conservation and water resource protection; they include the Water Utility, Department of Community Development (DCD) and the Water Resources Management Utility (a division of DCD).

The Mission of the Water Utility is to be the responsible custodian for and to provide a good quality, potable water supply at adequate pressures and in sufficient quantity for consumption and fire protection purposes, to all current and future Utility customers consistent with State/Federal Regulations and water industry practices and standards, in the most cost effective manner possible, and to educate the public about the benefits of being a good water use steward.

The Department of Community Development promotes and maintains the careful development of land, and preservation of the natural resources in the City of New Berlin. To accomplish this, the Department is involved in both current and long-range land use planning, engineering, building and capital improvement planning. This Department regulates every aspect of the development/construction process. DCD reviews, documents, permits, regulates and inspects all development/construction activity in the city. These efforts include reviewing and documenting development, economic development, geographic information systems (GIS)/land information systems (LIS), zoning enforcement, building inspection, construction/field inspections for new development, capital planning, mapping and in-house capital project design. It also includes the dissemination of this information to the public, working and coordinating with county, regional, state, and federal officials.

The long-term vision of the Water Resources Management Utility is to "promote a three-dimensional approach to efficiently and effectively manage storm water and to protect the water resource needs of the City of New Berlin". The Utility's Mission is dedicated to the management, construction, maintenance, protections, control, regulation, use, and enhancement of storm & surface water systems, flood protection, water quality, and groundwater recharge through education, coordination, development, maintenance and management of projects & programs in concert with other community development programming in an efficient and cost effective manner that considers the needs for protection of public health, private property, the natural environment, and economic development.

PURPOSE OF THE PLAN

The City has developed a Water Conservation Plan in order to be good stewards of a finite resource. Its loss can impact the quality of life for residents and dramatically affect policy decisions. In order to maintain quality of life and economic activity, a sustainable water supply is needed. To be good stewards, the City should conserve water by working closely with all residents and businesses to promote water conservation, and work with other governmental jurisdictions in the region to effectively manage water resources.

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To this end, the City views water resource management three-dimensionally. That is the protection & management of our groundwater, surface water and storm water through various means and methods. The City has set the following Plan goals to promote water conservation:

- ⇒ Reduce per capita residential water consumption from January 1, 2008 by not less than ten (10) percent by the Year 2020 for Utility customers as per an agreement between the City of New Berlin and the Wisconsin Department of Natural Resources (WDNR)
- ⇒ Enable the City to meet future needs of our growing population
- ⇒ Protect ground and surface water supplies from unsustainable depletion
- ⇒ Eliminate unnecessary waste in water use practices
- ⇒ Reduce wastewater treatment volume and associated municipal expenditures
- ⇒ Promote the increased use of harvested and recycled water for irrigation needs through the use of cisterns where appropriate for commercial and industrial development

Much of this Plan was developed by referencing the numerous water studies and current, relevant industry materials that are available. According to our Department's records, twenty-two (22) studies at a cost of over \$500,000 have been conducted analyzing and studying water issues in New Berlin. This does not include the current ongoing work related to the redevelopment of the New Valley Sand & Gravel quarry site (Mill Valley Business Park). There will be a geo-technical component to that report. A comprehensive list of recent water studies conducted for New Berlin can be found in Appendix A.

WATER UTILITY ACCOMPLISHMENTS

The Water Utility has worked hard to reduce water usage to help conserve a very valuable resource. We have in place an odd-even sprinkling schedule citywide to reduce water usage to lawns and gardens. In addition, we have a program in place whereby we change out water meters on a 10-year cycle instead of the 20-year program that the PSC requires. Changing the meters on a 10-year cycle ensures more accurate water consumption usage totals. Now that water utility customers are supplied with Milwaukee Water throughout the entire service area, the Utility will see reductions in water usage as follows:

- 1. 90% of all customers will NOT USE water softeners
 - \Rightarrow 180 gallons of water passes through every time the softener runs
 - \Rightarrow 9.4 million gallons of water will be saved by not using softeners
- 2. 8.7 million gallons will be saved annually due to the reduction of hydrant flushing from twice per year to once per year.

A total of 18.1 million gallons of water will be saved annually with just these two changes. Since 2006, the Utility has seen a decrease in the total water pumpage from municipal wells by approximately 189,071,000 gallons or a 14.6% reduction. In

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addition, the single day maximum / peak pumpage by gallons from 2006 thru 2008 has dropped by approximately 1,239,000 gallons for a 20.5% reduction.

CURRENT REGULATIONS AND ACTIVITIES

Current development standards, regulations and activities are already being implemented within in the City. The goal of this plan is to expand on the current City actions and implement additional water conservation strategies. Below is a list of current City initiatives:

- ⇒ <u>Codes/ordinances</u> numerous City regulations are in place to protect water quality and quantity. These ordinances follow DNR requirements for storm water management.
- ⇒ Sprinkling restrictions the Utility Department has enacted sprinkling restrictions for residents to follow year-round. The restrictions are as follows: even numbered addresses water on even days of each month and odd numbered addresses water on odd days of each month.
- ⇒ <u>Utility activities</u> the Utility Department utilizes the City webpage to provide information to residents. The webpage includes information on water conservation, kids activities to learn more about water, a water drip calculator and sprinkling restrictions. The Utility Department has also placed informational articles in the City's "Leaflet" quarterly newsletter, and has included conservation techniques in the City's Annual Water Quality Report. The department also offers free "leak test" for customers to have their toilets or water softeners tested for leaks. New meters that are currently being installed have a "leak detection" feature on them for residential and industrial usages.
- ⇒ Development/land use regulations The Department of Community Development encourages low-impact development techniques when reviewing projects. The Zoning Code has minimum open space requirements to limit the amount of impervious surface on development sites. Alternative storm water Best Management Practices ("Bumps") that use vegetation to naturally infiltrate the ground are also encouraged.
- ⇒ <u>Wellhead protection</u> the City also has a Wellhead Protection Area in the southeast portion of the City. This area is important to groundwater recharge and regulations are in place to protect the groundwater in this area.
- ⇒ 3-D Storm water regulations (groundwater, surface water and storm water) the City's ordinances and codes are in place to protect the City's water resources. The regulations work to promote protection of groundwater, surface water and storm water. The DNR regulates many activities surrounding these resources and the City's regulations adhere to the DNR requirements. Currently the City has a storm water management ordinance (Ord. #2193) to set storm water management requirements, an erosion control ordinance (Ord. #2268) to prevent erosion from construction sites and a post-construction storm water management ordinance (Ord. #2267) to prevent erosion for the long-term after construction. The City also has an illicit discharge ordinance to prevent and remedy any illegal

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discharges to the storm drain system. The Wellhead Protection area is in place to protect groundwater recharge areas.

⇒ <u>Public awareness/education</u> — the City utilizes the website, "Leaflet" newsletter and mailing inserts to promote water conservation and protection. See the above section regarding the Utility Department's activities. The Water Resources Management Utility (WRM) has partnered with a number of other communities from Kenosha, Racine, Milwaukee and Waukesha counties (known as the Root-Pike Watershed Initiative Network) to conduct programming to work to protect, restore, and sustain the ecosystems of the Root River and Pike River. The City recently hosted a Rain Garden Workshop that educated participants on ways of keeping storm water runoff from polluting streams, rivers and lakes by learning how to build and maintain a rain garden. The WRM is also involved in a number of other educational initiatives in relation to the City's Wisconsin Pollutant Discharge Elimination System Permit (WPDES) ranging from neighborhood meetings, development reviews to discussing local water resources issues to newsletter articles.

WISCONSIN'S GREAT LAKES COMPACT

The Great Lakes Basin is comprised of Lake Erie, Lake Huron, Lake Michigan, Lake Ontario, Lake Superior and the St. Lawrence River – represented by eight (8) Great Lakes states and two (2) Canadian Provinces (Minnesota, Wisconsin, Illinois, Indiana, Ohio, Michigan, Pennsylvania, New York, Quebec and Ontario). The Compact, in and of itself is significant as it encompasses ten (10) jurisdictions across international boundaries that have collectively agreed to manage the largest surface freshwater resource in the world. This is the first multi-jurisdictional agreement of this type in the world.

Each state and/or province adopted statutes further implementing the Compact within their respective jurisdictions. The Wisconsin Legislature adopted Act 227 in early 2008. Governor Doyle signed the law into effect on May 27, 2008. Wisconsin Act 227 adopts text of the Compact into state statute and provides implementation provisions for both pre and post Compact. In summary, Act 227 now regulates:

- ⇒ "Interbasin Transfers"
- ⇒ New Statewide Water Supply Planning for Public Water Supply Systems
- ⇒ New Statewide Water Use Regulations & Reporting System
- \Rightarrow New In-basin Water Use Permitting System; and
- ⇒ New Water Conservation and Efficiency Program

As a complimentary document to Wisconsin Act 227, the Southeastern Wisconsin Regional Planning Commission (SEWRPC) has prepared a draft Regional Water Supply Study. The complete study can be referenced on the SEWRPC website via the following link http://www.sewrpc.org/water/watersupplystudy. The scope of this study is as follows:

- ⇒ Forecast future water use demand in the Region
- ⇒ Consider potential of water conservation to reduce future demand
- ⇒ Identify groundwater recharge areas which should be protected from development
- ⇒ Assess potential for shallow groundwater recharge through infiltration of storm water runoff
- ⇒ Consider potential alternative sources of supply
 - o Shallow groundwater
 - o Lake Michigan water replacing groundwater east of the sub-continental divide
 - o Lake Michigan water replacing groundwater in "straddling communities" which already have "return flow"
 - o Lake Michigan water replacing groundwater in "straddling communities" and "communities in straddling counties" and providing for "return flow"
- ⇒ Estimate costs and impacts of alternatives
 - Groundwater-Surface Water Interdependence and Impacts
- ⇒ Identify any development constraints necessary to assure water supply sustainability
- ⇒ Amend regional land use plan if necessary.

The Regional Water Supply Study has identified and evaluated seven (7) different scenarios for providing adequate and clean water supplies to the region. It is important that this Plan be used as a guide as future water resource planning and conservation policy decisions are made.

EVALUATION OF HISTORICAL WATER USAGE AND PAST & CURRENT **CONSERVATION MEASURES**

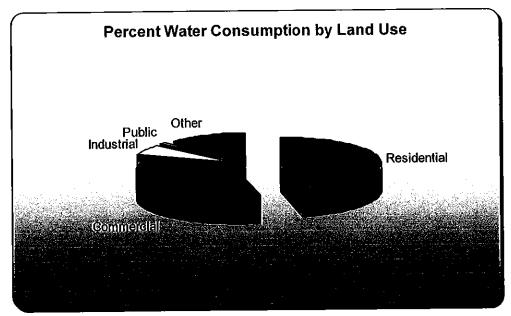
In 2008, the breakdown, by use, for City Water Utility customers is as follows:

47% ⇒ Residential 34% ⇒ Commercial 6% ⇒ Industrial 1% ⇒ Public

(Hydrant flushing, equipment malfunction, lost water, 12% ⇒ Other

meter inaccuracies)

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Source: New Berlin Water Utility

According to numbers provided by the City's Water Utility Department, the total yearly pumpage from municipal wells was as follows:

⇒ 2005	1,216,117,000 gallons
⇒ 2006	1,291,714,000 gallons
⇒ 2007	1,162,095,000 gallons
⇒ 2008	1,102,643,000 gallons

Source: New Berlin Water Utility

The maximum pumpage (in gallons – highest day) for the last four years were:

⇒ 2005	5.6 million gallons
⇒ 2006	6.0 million gallons
⇒ 2007	5.6 million gallons
⇒ 2008	4.8 million gallons

Source: New Berlin Water Utility

Water usage is tracked by quarterly billing to show high consumption with a high/low report for residential and industrial usage. The average residential water use per residential customer in New Berlin for 2007 was 70 gallons per customer per day (gpcd).

New Berlin has moved ahead with its water conservation measures whether it be through promoting and/or limiting water usage and loss or through land use planning, storm water management and development review. Utility activities implemented to date include:

⇒ Sprinkling restriction in effect year round

- ⇒ Notices of sprinkling restrictions on the City's website, quarterly leaflet, utility billings and on the local access cable channel
- ⇒ Leaflets available on the City website and references in the annual consumer confidence report
- ⇒ Rain barrels
- ⇒ Fixture replacement rebate program
- ⇒ Conduct annual water audits assessing utility system water losses
- ⇒ Leak detection program
- ⇒ Flag significant quarterly changes in water meter readings
- ⇒ Meter individual multi-family and residential condominium units
- ⇒ Replace water meters on a 10 year cycle
- ⇒ A water rate service charge that includes certain fixed charges but no water use, encouraging even those with lower water use to conserve
- ⇒ Adoption of the Storm water Management Ordinances
- ⇒ Water rate requests to the Public Service Commission reflecting full cost pricing
- ⇒ There are no bulk water sales within the Utility service area.

LAND USE PLANNING, STORMWATER MANAGEMENT AND DEVELOPMENT REVIEW MEASURES

The following is a summary of several ways that the Department of Community Development (DCD) furthers water conservation efforts here in New Berlin through the regulation of land use, storm water management and construction activities. Many of these items described below are not directly related to water conservation "per se" but, they do reflect our efforts surrounding water preservation and improving water quality.

The Department of Community Development (DCD) literally aids in the coordination and regulation of all construction activity within the city. The DCD also establishes and coordinates compliance with all storm water regulations. The DCD practices what we call "three-dimensional water resource planning". Focusing efforts on protection of groundwater, surface water and storm water resources.

Many of the water studies listed in Appendix A of this report have been utilized over the years in refining the City's Comprehensive Plan and utility needs. This was especially true during the preparation of the Growth and Development Master Plan update to the City's 1987 Comprehensive Plan. Since that time, DCD has been involved in the following initiatives and/or ways of promoting Low Impact Development (LID) in order to preserve our water resources.

⇒ The Department promotes the use of alternative "Best Management Practices" ("BMPs") for handling storm water. The encouragement of "green-roofs", bioretention swales, rain gardens, rain barrels and "prairie restorations", all promote habitat restoration and groundwater recharge. The Department has effectively promoted these ideals over the past two or more years. For example, the Settler's Ridge Subdivision located off of Wehr Road is 15 lots on 75 acres. Our Department required the developer to restore and enhance the open space into a

- "prairie habitat" that will be forever preserved offering not only visual benefits but functional as well, for overland flow of storm water allowing for groundwater recharge.
- ⇒ The Department has over the past several years, developed a number of ordinances and policies to assist in our efforts to promote "Three-Dimensional Water Resource Planning". This is the protection of groundwater, surface water and managing storm water conveyance. With assistance from Mr. Randall Arendt (one of the nation's foremost experts in conservation subdivision design & development), the City developed a conservation subdivision ordinance that requires that 75% of lands in any given conservation subdivision be set aside for permanent open space preservation for those without public utilities. For those conservation subdivisions with public utilities, our ordinance requires that 65% of the land be set-aside for permanent preservation. To the best of our knowledge, this is one of, if not the strictest conservation requirements within the State in terms of minimum open space requirements. Our ordinance also allows a transfer of density option in order to preserve additional open lands while allowing compensation to the parcels giving away their development rights. In the past, the Department has proposed a purchase of development rights program. However, that program was not funded.
- The Deer Creek Inn & Conference is a mixed-use development being constructed on the southwest corner of Moorland Road and Greenfield Avenue and will offer a 405 room hotel, indoor water park, conference center, restaurants and retail shops. Our Department has worked with the developer to include, as part of this development, a "roof-top rain garden / green-roof" that will cover approximately 75% of the roof. The "roof-top rain garden / green-roof" will collect water and transfer it into cisterns located in the lower level. That captured water will then be used to water the landscaping on site and keep the wetlands adjacent to the development within Deer Creek hydrated. In addition, the ramps and walkways will be heated with excess heat from the water park so that no salt will be used during the winter to melt ice.
- ⇒ Another example of how "BMPs" have been incorporated into a new development is the recent Living Word Church project. They are installing bio-infiltration swales that will contain engineered soils. These swales will be planted to follow DNR Technical Standards. They will also have temporary diversion swales during construction, which will protect the bio-infiltration swales.
- ⇒ The recently approved Crossroads Community Church is an additional example of the incorporation of "BMPs". This project will include bio-infiltration swales with engineered soils. A portion of the parking that will be used for larger church services will be grass covered with geo-blocks. This will help treat runoff as it comes off the parking lot before it enters the storm water ponds.
- ⇒ A recent project in the New Berlin Industrial Park was a Dog Day Care. This was a new use to the City. In working with the applicant, Staff had some concerns about the amount of animal waste and runoff from chemicals that this site would generate. Working collectively, DCD staff, DNR staff and the applicant worked on incorporating a rain garden and the proper use of environmentally friendly

- chemicals that do not degrade water quality and do not negatively impact the drainage ways and watershed.
- ⇒ Through continuing education, the Department is beginning to learn more about applying the standards found under the Leadership in Energy Efficient Design (LEED) program. With the recently approved Willowtree Development, an approximately 350,000 square foot building, the developer coordinated with our Department and was able to incorporate storm water "BMPs" into the site design and also various LEED design criteria. Besides incorporating energy efficient elements into the building's construction, the property will also be water efficient in terms of watering its landscaping. Water usage will be reduced by 50% or more for the site's landscaping. Irrigation water will be used from the retention pond. In addition, a portion of the parking used for overflow parking will be grass covered with geo-blocks, further allowing infiltration and treating runoff prior to reaching the retention pond.
- ⇒ Another project that is promoting groundwater recharge, enhances aquatic habitat and helps to protect our water resource assets is the Underwood Creek "Prospect Parkway" project being managed by the City's Water Resources Management Utility. Depending upon funding availability, this project is incorporating rain gardens, bio-retention swales, infiltration basins & trenches, native / prairie plantings and providing for additional wetland plantings that will help absorb additional water & pollutants and detaining additional water from entering the creek causing flooding problems downstream.
- ⇒ The current study underway for the redevelopment of the New Valley Sand & Gravel Quarry (Mill Valley Business Center) is being site designed to support 100% groundwater recharge of all storm water. In addition, LEED standards will also be recommended for new development.
- ⇒ The City's upcoming Comprehensive Plan update will focus on neighborhood planning efforts and identification of significant environmental features in the city and ways to preserve their integrity and further our three-dimensional water resource planning ideals.
- ⇒ In 2001, the Department conducted and prepared an Urban Ecological Analysis report. The project used the CITYgreen software that American Forests utilizes to examine the environmental and economic benefits of trees and green spaces within the City. This information is currently used on various maps within the City including the Map of Potential Conservation Lands and the Departments front counter maps to help staff and others quickly see areas of the City and their associated tree canopy.
- ⇒ The Department promotes water quality management measures to meet the City's WPDES Permit requirements by administering and enforcing the provisions of the City's Storm Water Ordinance No. 2193, the Illicit Discharge Ordinance No. 2269, the Erosion Control Ordinance No. 2268 and the Post Construction Ordinance No. 2267. The intent of this enforcement is to reduce the amount of sediment and other pollutants reaching the waters of the State. Our Department, through the Water Resources Management Utility have implemented a strong code compliance program to monitor all on-site construction activities related to erosion control and storm water management to

- ensure that all construction sites are in compliance with federal, state and local laws regulating water quality and storm water. All of which ultimately protects our water resources.
- ⇒ In addition, our Department is responsible for inspecting all plumbing devices pursuant to Comm 84.20 regarding flow control and flow restricting devices.
- ⇒ Members of our Department also serve on various statewide or regional boards or commissions that focus on improving land use planning and / or improving watershed & water resource management.

Due to increasing and complicated legislation & regulations relating to water resource protection, there needs to be a change in community development programming at all levels of government. Managing water resources is critical in high-quality land use planning and the overall health & integrity of these vital resources.

CONSERVATION MEASURES

Programs or activities to achieve water conservation can be classified into three categories: 1) program actions, 2) voluntary and 3) mandatory. Program actions are those activities that can be directly taken up by the City. Voluntary activities are those that use education or incentives to promote water conservation. Mandatory activities are those that use regulations and ordinances. These measures can be combined or phased in over time.

Suggested/Recommended "Program" Actions:

- ⇒ Install more rain gardens at public buildings
- ⇒ Install low flow fixtures at City Hall or other City buildings and monitor decrease in water usage
- ⇒ Install a rain barrel at City Hall
- ⇒ Remove obstacles in the zoning and building code to allow for rain harvesting tanks in all zoning districts. Encourage new subdivisions through homeowner association declarations of restrictions to allow them as well.
- ⇒ Encourage all new subdivisions to plant trees and use water harvesting for landscape irrigation.
- ⇒ Reduce hydrant flushing from two times to one time per year
- ⇒ Detect and reduce leakage in the New Berlin water system. Leakage from the water system provides an opportunity to reduce the amount of water that is pumped from water supplies by the New Berlin Water Utility. The New Berlin Water Utility should institute a more detailed water audit for the system to identify priority areas for water main replacement. Reducing leaks increases water pressure within the system and reduces energy costs for water pumping.

Suggested/Recommended "Voluntary" Actions:

- ⇒ When brushing your teeth, do not let the water run
- ⇒ Use water conserving shower heads and replace them as necessary
- ⇒ Check every faucet in your home for leaks (just a slow drip can waste 15-20 gallons per day).
- ⇒ Install rain barrels
- ⇒ Use native plantings in landscaping
- ⇒ Install a rain garden
- ⇒ Install low-flow fixtures with rebate assistance from the Utility for installation of water efficient fixtures
- ⇒ Bypass water softener system
- ⇒ Do not water lawns, gardens and landscaping between the hours of 9:00 a.m. and 9:00 p.m.
- ⇒ Cleaning of sidepaths, driveways, parking areas, tennis courts, patios, decks or other hard-surface areas should be accomplished with brooms – the use of water should be avoided
- ⇒ Limit the outdoor use of any water-play apparatus connected to a water source to one hour per day
- ⇒ The operation of outdoor misting systems used to cool people or areas should be avoided unless their use is necessary to alleviate an immediate threat to a person's health or safety
- ⇒ Water obtained by means of a fire hydrant shall not be used for cleaning equipment of any kind
- ⇒ Pools larger than 500 cubic feet should be supplied with water *obtained* from a source on that property's side of the sub-continental divide
- ⇒ The watering of gardens, trees and landscaping (except invasive species) through the use of a hand-held watering can or other hand-held container or hose is encouraged, provided any such watering device is utilized manually and in conjunction with an automatic hand-held shut-off valve
- ⇒ The watering or irrigation of new landscaping would also be allowed

Suggested/Recommended "Mandatory" Actions:

- \Rightarrow Sprinkling Ordinance impose fines when not followed (odd/even days)
- ⇒ Sprinkling Ordinance prohibit sprinkling during a significant portion of the mid-day hours when evaporation rates are high
- ⇒ Require an automatic hand-held shut-off valve for all outdoor domestic water hose use
- ⇒ Require rain and moisture sensors on all new lawn irrigation systems
- ⇒ Require low flow fixtures

The simplest application to minimize impact on City residents is to require conservation measures for all new development, so that it is incorporated from the outset. As new

technology becomes available encourage its implementation into our codes and wide spread use.

PROGRAM IMPLEMENTATION

The City designates the Water Utility and the Department of Community Development (including the WRM) as the responsible departments for implementing this Water Conservation Plan. Each department would work cooperatively in administering, educating and implementing the programs and policies identified herein. To further the Plans implementation, the City should set city-wide and household conservation goals and publicize them.

New Berlin should act as a role model for water conservation. Some of the areas where the City can lead by example are as follows:

- ⇒ Continue to promote three-dimensional water resource planning
- ⇒ Implement best management practices ("BMPs") for conservation and utilize public lands as pilot projects
- ⇒ Actively coordinate all land use planning elements thru sound community development; and
- ⇒ Provide water resource utility fee credits to property owners who utilize "BMPs" on their property (ie. pervious paving, rain gardens, bio-swales, etc.).

REDUCING WATER USE

Reduce per capita residential water consumption from January 1, 2008 by not less than (10) percent by the Year 2020 for Utility customers as per an agreement between the City of New Berlin and the Wisconsin Department of Natural Resources (WDNR). This goal is based on prior experience with other municipal water conservation programs. New Berlin is also seeking to reduce peak water demand by 1 MGD through controls in water sprinkling. The city will develop a program that provides monetary and other incentives to water users to reduce water use. Many water utilities use incentive-based programs to encourage water use reductions. This is usually done in tandem with a change in the rate structure that discourages increases in water usage.

INCENTIVE PROGRAM FOR RESIDENTS (Toilet and Fixture Replacements)

Toilet Replacements

The City of New Berlin Water Utility will develop a program to offer rebates of up to \$100 for residential customers who replace their high water using toilets with EPA WaterSense-rated High Efficiency Toilet (HET) models. The program is part of the utility's Water Conservation Plan to reduce per capita residential water usage10 percent by the year 2020.

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Toilets eligible for rebate must be HETs (which use an average of 1.28 gallons per flush) and must be on the Environmental Protection Agency's (EPA) WaterSense list. Any toilet that meets the criteria and is purchased after January 1, 2010, will be eligible. Rebates will be in the form of checks sent to the customer's residence of record; the check amount will not exceed the purchase price of the toilet.

To apply for the rebate, an applicant must submit two items: the original, dated sales receipt for the toilet showing the manufacturer's model name and number and the completed application form. These items would be submitted to the City's Water Utility Office.

Eligibility

Participants in the program must be residential customers of the New Berlin Water Utility, and the installation address must be in the customer service area of the utility. Qualified customers are those who live in single-family homes, condos, or apartments in buildings no larger than two units. Rebates are for replacement of existing larger-capacity toilets, and are not for new construction. Rebates are first-come, first-served, until funding is exhausted. The program is for only two toilet rebates per household. Eligible replacement toilets must be HETs listed on the EPA <u>WaterSense website</u> (http://epa.gov/watersense/pp/find-het.htm).

Installation

Homeowners may install the toilets themselves, or they may hire a plumber or contractor to do the job. Owners are responsible for proper installation and associated costs. All applicable building and/or plumbing permits shall be obtained from the Department of Community Development – Inspection Services Division and pass all inspections. Installation may also be subject to verification by water utility personnel. Toilets may be purchased at any supplier as long as they are on the WaterSense list of HETs. Where applicable, permit fees will be waived for these installations.

Rebates

Rebate checks of up to \$100/toilet (not to exceed actual purchase price) will be sent to the customer's address four to six weeks after applications are processed and the Utility has received notification that the installation has passed inspection. Rebates are not available for the costs of installation. The program will be based upon a "first come-first served" basis and will be limited to the amount budgeted within a given year.

Fixture Replacement

Greater water savings are achieved when ALL fixtures are replaced with High Efficiency ones. In addition to offering rebates for the installation of HETs, the Utility will also offer rebates for the installation of high efficiency showerheads and faucets.

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For High Efficiency Showerheads (HES), participants will receive a \$10.00 rebate (not to exceed the purchase price) when they purchase and install 1.5 gallon per minute (gpm) showerheads (maximum of two (2). Or, participants may exchange their old showerheads for free (maximum of two (2)) for new high efficiency ones at either the City's Utility Office or the Department of Community Development – Permit Application Center. Where applicable, permit fees will be waived for these installations.

Regarding, High Efficiency Faucets (HEF), participants may receive a \$25.00 rebate (not to exceed the purchase price) when they purchase and install 1.5 gallon per minute (gpm) kitchen/bathroom faucet (maximum of two (2)). Faucets must be EPA WaterSense certified.

All rebates shall be granted on a first-come, first-served basis until program funds are exhausted. This program is subject to available funds and the City of New Berlin Utility Committee would reserve the right to alter program funding or program requirements at any time without notice. The Water Utility would not guarantee that program funding would be sufficient nor that all persons submitting applications shall receive a rebate.

Only High-Efficiency Toilets labeled as EPA's WaterSense and 1.5 gallons per minute showerheads and/or faucets qualify for a rebate. Proof of WaterSense labeled High Efficiency Faucet and/or proof of 1.5 gpm Showerhead is required to be submitted with application. No substitutions will be accepted under this Program. Original dated sales receipt for new showerhead or faucet must be submitted with the rebate application. New construction is not covered by this rebate. Rebate amount applies to purchase of approved toilets/faucets/showerheads only.

IMPLEMENT CONSERVATION PLAN and CONDUCT PUBLIC OUTREACH & EDUCATION

The New Berlin Water Utility and Department of Community Development will implement the final conservation plan encompassing the information gathered. The City will circulate the plan to local stakeholders, government officials, and utility staff to generate support for and comment on the plan. The Department's will implement the plan's measures and track progress.

The City will actively promote implementation of the conservation plan through public education and outreach in the New Berlin schools and the press. The City will utilize existing educational and outreach materials available through: the California Urban Water Conservation Council — www.everydrop.org; www.everydrop.org; www.waterwiser.org and the American Water Works Association at www.awwa.org.

The Utility will also conduct an ongoing monitoring program to assess the effectiveness of water use reduction activities through actual water use savings, customer participation, and costs of device maintenance. The Utility will regularly report on the program effectiveness to the Utility Committee and through annual reports to the public.

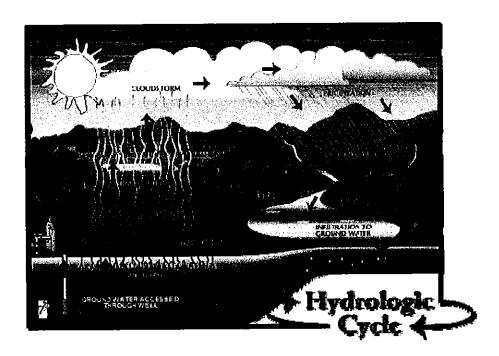
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APPENDIX A - RECENT NEW BERLIN WATER STUDIES

\Rightarrow	City of New Berlin Application for Water Diversion	2006
	Radium Compliance Study	2002
	Lake Michigan Water Study	2001
\Rightarrow	Report on the Geophysical Logging Study on Well 8	2001
\Rightarrow	Sand and Gravel Test Boring Results	2001
\Rightarrow	New Berlin Energy Park Studies & Groundwater Monitoring	2000
\Rightarrow	Report on the Geologic Reconnaissance Study for the	
	Siting of Shallow Sand and Gravel Wells	2000
⇒	Water System Study Update for Impact Fees	1998
\Rightarrow	Westbrook Water Service Study	1998
	Update Supply and Storage Analysis	1994
\Rightarrow	Geothermal Survey for Dolomite Well Site – Valley View Park	1992
\Rightarrow	Geothermal Survey for Locating a Dolomite Well Site –	
	Westridge Subdivision	1992
\Rightarrow	Shallow Geothermal Survey for Valley View Park Test Well Site	1992
\Rightarrow	Report on the Phase II, Sand and Gravel Well Exploration Studies	
	at the High Pointe and Woodfield Sites in the East Half of the City	
	of New Berlin	1991
\Rightarrow	Report on the Phase II, Dolomite Well Exploration Study at the	
	Westridge and Valley View Park Sites in the East Half of the	1001
	City of New Berlin	1991
\Rightarrow	Report on the Phase I Study of the Groundwater Exploration	4004
	Program for the East Half of the City of New Berlin	1991
	Water System Facilities Study	1989-'91
	Westbrook Water Service Study	1998
	Update Supply and Storage Analysis	1994
	Water System Facilities Study	1989-'91
	Radium Compliance Study	1986
\Rightarrow	Section 25 Water Study	1985

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APPENDIX B - GROUNDWATER CYCLE



<u>Source:</u> Illustrations depicting the world water supply and hydrologic cycle were developed by Stephen ADDucci, <u>studio d'aDDuci</u>, for original use in the Purdue Pesticide Programs Pesticide and Water Quality publication PPP-35 (1995). Reuse in this program is by express agreement with the illustrator. Developed in the <u>Agricultural & Biological Engineering Department</u>, Purdue University, 1997. Funded jointly by Purdue and U.S. EPA Region 5.

Illustrations depicting the world water supply and hydrologic cycle were developed by Stephen ADDucci, <u>studio d'aDDuci</u>, for original use in the Purdue Pesticide Programs Pesticide and Water Quality publication PPP-35 (1995). Reuse in this program is by express agreement with the illustrator.

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City of New Berlin Water Conservation Plan

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Dublic Or Brivato	Municipality	YFAR	Tvpe	Table Name	Inspection Costs Rehab	Rehabilitation Costs Total Costs	otal Costs
Fublic of Fillyace		1000	O IONINA OF IONIN	α	1.231.86		1,231.86
PUBLIC	Bayside	7002	PUBLIC MAINDOLE	ו ב	00 040 0		2 050 00
PUBLIC	Bayside	2002	ILLEGAL CONNECTION	יע	2,030.00		22.00017
PUBLIC	Bayside	2002	PRIVATE MANHOLE	മ			
PUBLIC	Bayside	2002	PUBLIC SEWER	U			
PUBLIC	Bayside	2005	PRIVATE SEWER	ပ			
PUBLIC	Bayside	2002	PRIVATE BUILDING SEWER	۵			
PUBLIC	Bayside	2002	OTHER	ட		90	00.170
PUBLIC	Bayside	2006	PUBLIC MANHOLE	മ		79,241.00	00.147,67
PRIVATE	Bayside	2006	PRIVATE MANHOLE	മ			7
PUBLIC	Bayside	2006	PUBLIC SEWER	U	97,150.00	1,400,000.00	1,497,150.00
PRIVATE	Bayside	2006	PRIVATE SEWER	U			
PRIVATE	Bayside	2006	PRIVATE BUILDING SEWER	۵			0
PUBLIC	Bayside	2006	ILLEGAL CONNECTION	ш	2,100.00		2,100.00
PUBLIC	Brookfield	2002	PUBLIC MANHOLE	2	!	162,000.00	162,000.00
PRIVATE	Brookfield	2002	PRIVATE MANHOLE	മ	500.00		200.000
PUBLIC	Brookfield	2002	PUBLIC SEWER	U	14,000.00	121,000.00	135,000.00
DRTV/ATF	Brookfield	2005	PRIVATE SEWER	U	1,000.00		1,000.00
TI MILIO	Brookfield	2006	PUBLIC MANHOLE	В	2,175.00	378,200.00	380,375.00
718119	Brookfield	2006	PUBLIC SEWER	υ	20,000.00	800,000.00	820,000.00
7170	prookfield	2006	PRIVATE MANHOLE	œ	375.00	2,100.00	2,475.00
PKIVAIG	Brookfald	2002	PRIVATE SEWER	U	2,000.00	8,000.00	10,000.00
PKIVAIE	prooffeld	2007	PUBLIC MANHOLE	œ	13,400.00	49,600.00	63,000.00
PUBLIC	Brookfield	2007	PUBLIC SEWER	U	50,000.00	0.00	50,000.00
אַנוּמוּינּ	Brown Doer	2005	PUBITC MANHOLE	c	1,776.00	49,856.00	51,632.00
PUBLIC	Brown Deer	2002	PRIVATE MANHOLE	6 0	153.00	0.00	153,00
PUBLIC	prowit Door	2007	CITY CEMER	Ü	38,996.00	106,180.00	145,176.00
PUBLIC	Brown Deer	2005	DRIVATE SEWER	O	0.00	0.00	0.00
PUBLIC	D C I MO C	2000	POTVATE BILL OTNG SEWER	۵ ۵	1,814.00	0.00	1,814.00
	Brown Deer	2005	THEGAL CONNECTION	ш	3,642.00	00.0	3,642.00
PUBLIC	Brown Deer	2006	PRIVATE MANHOLE	60	253.75	1,218.00	1,471.75
PUBLIC	Brown Deer	2007	PRIVATE SEWER	U	0.00	00'0	0.00
PUBLIC PLOISO	Down Door	2006	PRIVATE BIII DING SEWER	۵	0.00	0.00	0.00
FUBLIC		200		60	7,917.00	29,290.00	37,207.00
PUBLIC	Brown Deer	2007		י נ			
PUBLIC	Brown Deer	2006	FUBLIC SEWER	ם כ	3 195 70	0.00	3,095.70
PUBLIC	Brown Deer	2006	ILLEGAL CONNECTION	. .		1	3 915 00
PUBLIC	Brown Deer	2006	OTHER	L I			
PUBLIC	Brown Deer	2007	PUBLIC MANHOLE	മ			
PUBLIC	Brown Deer	2007	PUBLIC SEWER	U			
PUBLIC	Brown Deer	2007	PRIVATE BUILDING SEWER	۵			
) - -							

Public Or Private	Municipality	YEAR	Type	Table Name Insp	Inspection Costs Rehabili	Rehabilitation Costs To	Total Costs
PUBLIC	Brown Deer	2007	PRIVATE BUILDING SEWER	B			
PUBLIC	Brown Deer	2007	OTHER	Ŀ			
PUBLIC	Butler	2006	PUBLIC MANHOLE	ω.	300.00	3,800.00	4,100.00
PUBLIC	Butler	2002	PUBLIC SEWER	U	8,569.00	00:00	8,569.00
PUBLIC	Butler	2002	PUBLIC MANHOLE	ω	0.00	00.00	0.00
PUBLIC	Caledonia	2006	PUBLIC MANHOLE	ŋ	7,900.00	18,000.00	25,900.00
PUBLIC	Caledonia	2007	PUBLIC MANHOLE	ω	0.00	0.00	0.00
PUBLIC	Cudahy	2005	PUBLIC MANHOLE	ω	2,481.00	153,691.00	156,172.00
PUBLIC	Cudahy	2002	PUBLIC SEWER	U	6,733.00	63,885.00	70,618.00
PUBLIC	Cudahy	2002	ILLEGAL CONNECTION	ш	240.00		240.00
PUBLIC	Cudahy	2002	OTHER	ட	79,511.00		79,511.00
PUBLIC	Cudahy	2006	PUBLIC MANHOLE	m	980.00	3,535.00	4,515.00
PRIVATE	Cudahy	2006	PRIVATE MANHOLE	മ			
PUBLIC	Cudahy	2006	PUBLIC SEWER	v	6,528.00		6,528.00
PRIVATE	Cudahy	2006	PRIVATE SEWER	U			
PRIVATE	Cudahy	2006	PRIVATE BUILDING SEWER	۵			
PUBLIC	Cudahy	2006	ILLEGAL CONNECTION	ш	240.00		240.00
PUBLIC	Cudahy	2006	OTHER	ш	87,306.00		87,306.00
PUBLIC	Cudahy	2002	PUBLIC MANHOLE	മ	1,200.00	22,129.00	23,329.00
PUBLIC	Cudahy	2007	PRIVATE MANHOLE	ω			
PUBLIC	Cudahy	2007	PUBLIC SEWER	U	34,223.00	705,849.00	740,072.00
PUBLIC	Cudahy	2007	PRIVATE SEWER	υ			
PUBLIC	Cudahy	2007	PRIVATE BUILDING SEWER	Ω			
PUBLIC	Cudahy	2007	ILLEGAL CONNECTION	ш	180.00		180.00
PUBLIC	Cudahy	2007	OTHER	L	70,081.00		70,081.00
PUBLIC	Elm Grove	2006	PUBLIC SEWER	υ	6,650.00	140,000.00	146,650.00
PUBLIC	Eim Grove	2002	PUBLIC SEWER	U	4,309.00	22,330.00	26,638.00
PUBLIC	Fox Point	2007	PUBLIC MANHOLE	മ	10,810.00	94,708.00	105,518.00
PUBLIC	Fox Point	2002	PUBLIC SEWER	U	34,995.00	306,598.00	341,593.00
PUBLIC	Fox Point	2006	PUBLIC MANHOLE	m	4,700.00	44,800.00	49,800.00
PUBLIC	Fox Point	2006	PUBLIC SEWER	ပ	78,100.00	472,900.00	551,000.00
PUBLIC	Franklin	2006	PUBLIC MANHOLE	മ	51,490.00	1,158.00	52,648.00
PUBLIC	Franklin	2006	PUBLIC SEWER	U	63,102.00	197,586.00	260,688.00
PUBLIC	Franklin	2007	PUBLIC MANHOLE		61,500.00	8,500.00	70,000.00
PUBLIC	Franklin	2002	PUBLIC SEWER		102,000.00		102,000.00
PUBLIC	Germantown	2005	PUBLIC MANHOLE	œ	16,500.00	13,545.00	30,045.00
PUBLIC	Germantown	2005	PUBLIC SEWER	U	16,500.00		16,500.00
PRIVATE	Germantown	2005	PRIVATE BUILDING SEWER	۵	25,200.00		25,200.00
PUBLIC	Germantown	2005	ILLEGAL CONNECTION	ш	10,800.00		10,800.00

Public Or Private	Municipality	YEAR	Туре	Table Name		Rehabilitation Costs 1	Total Costs
PUBLIC	Germantown	2002	OTHER	L	12,600.00		12,600.00
PUBLIC	Germantown	2007	DEFAULT OBJECT TYPE	DEFAULT VALUE	0.00	0.00	0.00
PUBLIC	Giendale	2007	PUBLIC MANHOLE	₩.	7,000.00	13,100.00	20,100.00
PRIVATE	Glendale	2007	PRIVATE MANHOLE	ω	0.00	0.00	0.00
PUBLIC	Giendale	2007	PUBLIC SEWER	U	28,840.00	135,200.00	164,040.00
PRIVATE	Glendale	2007	PRIVATE SEWER	U	00:00	0.00	0.00
PRIVATE	Glendale	2007	PRIVATE BUILDING SEWER	۵	0.00	00:00	0.00
PRIVATE	Glendale	2007	ILLEGAL CONNECTION	ш	2,800.00	0.00	2,800.00
PUBLIC	Glendale	2002	OTHER	u.	0.00	00.00	0.00
PUBLIC	Glendale	2002	PUBLIC MANHOLE	8	2,900.00	9,750.00	17,650.00
PUBLIC	Glendale	2005	PRIVATE MANHOLE	ω	0.00	0.00	0.00
PUBLIC	Glendale	2002	PUBLIC SEWER	U	41,300.00	124,950.00	166,250.00
PUBLIC	Glendale	2002	PRIVATE SEWER	U	0.00	0.00	00.0
PUBLIC	Glendale	2005	PRIVATE BUILDING SEWER	۵	0.00	0.00	0.00
PUBLIC	Glendale	2002	ILLEGAL CONNECTION	ш	2,500.00	0.00	2,500.00
PUBLIC	Glendale	2006	PUBLIC MANHOLE	6	8,600.00	14,600.00	23,200.00
PUBLIC	Glendale	2006	PUBLIC SEWER	ပ	21,000.00	410,000.00	431,000.00
PUBLIC	Glendale	2006	ILLEGAL CONNECTION	ш	2,800.00	0.00	2,800.00
PUBLIC	Greendale	2006	PUBLIC MANHOLE	m	18,540.00	22,950.00	41,490.00
PUBLIC	Greendale	2006	PUBLIC SEWER	ပ	4,860.00		4,860.00
PUBLIC	Greendale	2006	PRIVATE SEWER	۵	1,690.00	00.000'9	7,690.00
PUBLIC	Greendale	2002	PUBLIC MANHOLE	8	2,000.00	575,200.00	582,200.00
PUBLIC	Greendale	2007	PUBLIC SEWER	υ	3,008.00	0.00	3,008.00
PUBLIC	Greendale	2007	PRIVATE SEWER	٥	750.00	10,000.00	10,750.00
PUBLIC	Greenfield	2002	PUBLIC MANHOLE	8	79,856.00	587,149.00	667,005.00
PUBLIC	Greenfield	2007	PUBLIC SEWER	U	62,732.00	13,390.00	76,122.00
PUBLIC	Greenfield	2007	OTHER	L	121,200.00	0.00	121,200.00
PUBLIC	Greenfield	2006	PUBLIC MANHOLE	8	79,000.00	784,477.28	863,477.28
PUBLIC	Greenfield	2006	PUBLIC SEWER	U	58,000.00	587,101.00	592,901.00
PUBLIC	Hales Corners	2006	PUBLIC MANHOLE	80	1,500.00	8,300.00	9,800.00
PUBLIC	Hales Corners	2006	PRIVATE MANHOLE	œ	00:00	0.00	0.00
PUBLIC	Hales Corners	2006	PUBLIC SEWER	U	18,272.00	1,332,400.00	1,350,672.00
PUBLIC	Hales Corners	2006	PRIVATE SEWER	U	0.00	0.00	0.00
PUBLIC	Hales Corners	2006	PRIVATE BUILDING SEWER	۵	0.00	0.00	0.00
PUBLIC	Hales Corners	2006	ILLEGAL CONNECTION	ш	0.00	0.00	0.00
PUBLIC	Hales Comers	2006	OTHER	ட	0.00	0.00	0.00
PUBLIC	Hales Corners	2007	PUBLIC MANHOLE	Δ.	2,000.00	3,600.00	5,600.00
PRIVATE	Hales Corners	2002	PRIVATE MANHOLE	Δ	0.00	0.00	0.00
PUBLIC	Hales Corners	2007	PUBLIC SEWER	U	10,535.00	2,460.00	12,935.00

Public Or Private	Municipality	YEAR	Туре	Table Name	Inspection Costs Ro	Rehabilitation Costs T	Total Costs
PUBLIC	Hales Corners	2002	PRIVATE SEWER	U	0.00	0.00	0.00
PRIVATE	Hales Corners	2007	PRIVATE BUILDING SEWER	۵	0.00	0.00	0.00
PRIVATE	Hales Corners	2007	ILLEGAL CONNECTION	ш	0.00	00:00	0.00
PUBLIC	Hales Corners	2007	OTHER	L	0.00	0.00	00:00
PUBLIC	Menomonee Falls	2005	PUBLIC MANHOLE	മ	7,832.00	17,087.00	24,919.00
PRIVATE	Menomonee Falls	2005	PRIVATE MANHOLE	8	428.00	0.00	428.00
PUBLIC	Menomonee Falls	2006	PUBLIC MANHOLE		5,000.00	10,000.00	15,000.00
PUBLIC	Menomonee Falls	2007	PUBLIC SEWER		12,250.00	244,995.00	257,245.00
PUBLIC	Meguon	2006	PUBLIC SEWER	U	11,250.00	0.00	11,250.00
PRIVATE	Mequon	2006	ILLEGAL CONNECTION	ш	15,750.00	200.00	15,950.00
PUBLIC	Mequon	2006	PUBLIC MANHOLE	8	0.00	230,000.00	230,000.00
PUBLIC	Mequon	2002	PUBLIC MANHOLE	œ	00.009′6	130,350.00	139,950.00
PUBLIC	Mednon	2002	PUBLIC SEWER	U	35,305.00	175,903.00	211,208.00
PRIVATE	Mednon	2007	PRIVATE SEWER	U	26,220.00	139,482.00	165,702.00
PUBLIC	Milw County	2006	PUBLIC MANHOLE	¥	222,637.91	0.00	222,637.91
PUBLIC	Milw County	2002			610,000.00	1,275,000.00	1,885,000.00
PUBLIC	Milwaukee	2006	DEFAULT OBJECT TYPE	ω	197,000.00	1,362,340.00	1,559,340.00
PUBLIC	Milwaukee	2006	DEFAULT OBJECT TYPE	U	268,900.00	2,428,847.00	2,697,747.20
PUBLIC	Milwaukee	2006	DEFAULT OBJECT TYPE	L			92,000.00
PUBLIC	Milwaukee	2007	PUBLIC MANHOLE	1	149,000.00	1,090,840.00	1,239,840.00
PUBLIC	Milwaukee	2007	PUBLIC SEWER	υ	216,842.00	5,066,003.00	5,282,845.00
PUBLIC	Milwaukee	2007	OTHER	L	52,757.00	0.00	52,757.00
PUBLIC	MMSD	2007	PRIVATE BUILDING SEWER	_U	23,002.00	11,234.00	34,236.00
PUBLIC	Muskego	2006	PUBLIC MANHOLE	œ	20,000.00	0.00	20,000.00
PRIVATE	Muskego	2006	PRIVATE MANHOLE	œ	0.00	0.00	0.00
PUBLIC	Muskego	2006	PUBLIC SEWER	U	00'0	0.00	0.00
PRIVATE	Muskego	2006	PRIVATE SEWER	υ	00.00	0.00	0.00
PRIVATE	Muskego	2006	PRIVATE BUILDING SEWER	۵	0.00	0.00	0.00
PRIVATE	Muskego	2006	ILLEGAL CONNECTION	ш	0.00	0.00	0.00
PUBLIC	Muskego	2006	OTHER	Œ	0.00	0.00	0.00
PUBLIC	Muskego	2007	ILLEGAL CONNECTION	ш	100.00		100.00
PUBLIC	Muskego	2007	PUBLIC MANHOLE	ω	1,000.00	15,000.00	16,000.00
PUBLIC	Mew Berlin	2002	PUBLIC MANHOLE	6	17,865.75	14,835.00	32,700.75
PUBLIC	New Berlin	2002	PUBLIC SEWER	U	80,758.29	1,272,942.23	1,353,700.52
PUBLIC	Mean Berlin	2006	PUBLIC MANHOLE	œ	13,549.11	32,100.80	45,649.91
PUBLIC	Mere-Berlin	2006	PUBLIC SEWER	U	217,686.47	1,075,678.70	1,293,365.17
PUBLIC	New Berlin	2006	PUBLIC MANHOLE	ω	13,549.11	32,100.80	45,649.91
PUBLIC	Wew Berlin	2006	PUBLIC SEWER	U	217,686.47	1,075,678.70	1,293,365.17
PUBLIC	New-Berlin	2007	PUBLIC MANHOLE	DEFAULT VALUE	8,430.71	5,761.39	14,192.10
	:						

Public Or Private	Municipality	YEAR	Туре	Table Name	Inspection Costs Rehabilitation Costs		Total Costs
PUBLIC	West Bertin	2002	PUBLIC SEWER	DEFAULT VALUE	105,301.00	0.00	105,301.00
PUBLIC	Oak Creek	2005	PUBLIC MANHOLE	œ	8,000.00	25,000.00	33,000.00
PUBLIC	Oak Creek	2002	PUBLIC SEWER	U	35,000.00	2,500.00	37,500.00
PUBLIC	Oak Creek	2006	PUBLIC MANHOLE	€	30,500.00	10,300.00	40,800.00
PUBLIC	Oak Creek	2006	PUBLIC SEWER	U	36,000.00	3,000.00	39,000.00
PUBLIC	Oak Creek	2007	PUBLIC MANHOLE	œ	30,000.00	43,000.00	73,000.00
PUBLIC	Oak Creek	2007	PUBLIC SEWER	U	33,000.00	1,000.00	34,000.00
PUBLIC	Oak Creek	2007	PUBLIC MANHOLE	8	30,000.00	43,000.00	73,000.00
PUBLIC	Oak Creek	2007	PUBLIC SEWER	U	33,000.00	1,000.00	34,000.00
PUBLIC	River Hills	2002	PUBLIC MANHOLE	ω	5,685.00	3,600.00	9,285.00
PUBLIC	River Hills	2002	PUBLIC SEWER	U	29,341.00		29,341.00
PUBLIC	River Hills	2006	PUBLIC MANHOLE	ω	14,692.00	12,828.00	27,457.00
PUBLIC	River Hills	2006	PUBLIC SEWER	U	18,859.00	54,190.00	73,049.00
PUBLIC	River Hills	2002	PUBLIC MANHOLE	ტ	6,025.00	4,573.00	10,598.00
PUBLIC	River Hills	2007	PUBLIC SEWER	១	31,094.00	101,103.00	132,197.00
PUBLIC	Shorewood	2006	PUBLIC MANHOLE	ω.	1,362.00	36,600.00	37,962.00
PUBLIC	Shorewood	2006	PUBLIC SEWER	U	5,450.00	31,455.50	36,905.50
PUBLIC	Shorewood	2002	PUBLIC: MANHOLE				
PUBLIC	Shorewood	2007	PUBLIC SEWER	U		11,488.02	11,488.02
PRIVATE	Shorewood	2002	PRIVATE SEWER	٥		110,332.75	110,332.75
PUBLIC	St. Francis	2002	PUBLIC MANHOLE	8	6,000.00	8,850.00	14,850.00
PUBLIC	St. Francis	2002	PUBLIC SEWER	U	00.0	8,685.00	8,685.00
PUBLIC	St. Francis	2006	PUBLIC SEWER	U	4,524.00	14,616.00	19,140.00
PUBLIC	St. Francis	2006	PUBLIC MANHOLE	8	00:0	2,340.00	2,340.00
PUBLIC	St. Francis	2002	PUBLIC SEWER	U	10,000.00		10,000.00
PUBLIC	St. Francis	2002	PUBLIC MANHOLE	Ð		6,000.00	6,000.00
PUBLIC	Thiensville	2002	PUBLIC MANHOLE	€	25,000.00	40,000.00	65,000.00
PUBLIC	Thiensville	2002	PRIVATE MANHOLE	8	500.00	8,120.00	8,620.00
PUBLIC	Thiensville	2006	PUBLIC MANHOLE	8	14,952.00	70,367.00	85,319.00
PUBLIC	Thiensville	2006	ILLEGAL CONNECTION	ш	5,000.00	5,000.00	5,000.00
PUBLIC	Wauwatosa	2005	PUBLIC MANHOLE	60	22,720.00	216,357.00	239,077.00
PUBLIC	Wauwatosa	2002	PRIVATE SEWER	80			
PUBLIC	Wauwatosa	2002	PUBLIC SEWER	U	45,608.00	786,060.00	831,668.00
PUBLIC	Wauwatosa	2002	PRIVATE SEWER	U			
PUBLIC	Wauwatosa	2002	PRIVATE BUILDING SEWER	۵	2,672.00	89,135.00	91,807.00
PUBLIC	Wauwatosa	2002	ILLEGAL CONNECTION	ш	3,360.00	26,000.00	59,360.00
PUBLIC	Wauwatosa	2002	OTHER	Œ			
PUBLIC	Wauwatosa	2005	OTHER	I	3,100.00	267,936.00	271,036.00
PUBLIC	Wauwatosa	2006	PUBLIC MANHOLE	ω	64,108.00	570,451.00	634,559.00

MunicipalityYEARTypeTable NameInspectorsWauwatosa2006PRIVATE MANHOLEB	Type Table Name PRIVATE MANHOLE B		ction Costs Rehab 0.00	Inspection Costs Rehabilitation Costs Total Costs 0.00 0.00 0.00 0.00	tal Costs 0.00
Wauwatosa 2006 PUBLIC SEWER C	PUBLIC SEWER C	U	5,734.00	394,597.00	400,331.00
Wauwatosa 2006 PRIVATE SEWER C		U	0.00	0.00	0.00
2006 F		۵	9,550.00	153,989.00	163,539.00
5006	-	ш	0.00	90,000,00	90,000,06
_	OTHER	I	0.00	403,493.00	403,493.00
_	PUBLIC MANHOLE B	В	36,300.00	395,595.00	432,895.00
	PRIVATE MANHOLE B	ΔĐ	0.00	0.00	0.00
_	PUBLIC SEWER C	U	10,062.00	448,954.00	459,016.00
_	PRIVATE SEWER C	U	0.00	00.0	0.00
_	PRIVATE BUILDING SEWER D	۵	8,100.00	223,873.00	231,973.00
	ILLEGAL CONNECTION E	ш	0.00	144,650.00	144,650.00
Wauwatosa 2007 OTHER H	OTHER	I	0.00	116,551.00	116,551.00
West Allis 2006 PUBLIC MANHOLE B	PUBLIC MANHOLE B	В	5,000.00	50,000.00	55,000.00
	PUBLIC SEWER C	U	75,000.00	1,898,650.00 1,	1,973,650.00
West Aliis 2007 PUBLIC MANHOLE B	PUBLIC MANHOLE B	8	75,000.00	140,000.00	215,000.00
West Aliis 2007 PUBLIC SEWER C	PUBLIC SEWER C	U	140,000.00	1,589,000.00 1,	1,729,000.00
	PRIVATE BUILDING SEWER D	۵	0.00	116,000.00	116,000.00
West Milwaukee 2007 PUBLIC MANHOLE B	PUBLIC MANHOLE B	6 0	1,440.00	260.00	1,700.00
West Milwaukee 2007 PUBLIC SEWER C	PUBLIC SEWER C	U	1,500.00	47,915.00	49,415.00
West Milwaukee 2007 PRIVATE SEWER D	PRIVATE SEWER D	۵	200.00	6,000.00	6,200.00
Whitefish Bay 2006 PUBLIC SEWER C	PUBLIC SEWER C	U	140,000.00	3,380,000.00 3,	3,520,000.00
Whitefish Bay 2006 OTHER F	OTHER	ш,	0.00	5,000.00	5,000.00
Whitefish Bay 2007 PRIVATE BUILDING SEWER D	PRIVATE BUILDING SEWER D	۵	15,000.00	320,000.00	335,000.00
Whitefish Bay 2007 PUBLIC MANHOLE B	PUBLIC MANHOLE B	œ	3,000.00		3,000.00
Whitefish Bay 2007 ILLEGAL CONNECTION E	ILLEGAL CONNECTION E	ш	13,000.00		13,000.00
Whitefish Bay 2007 PUBLIC SEWER	PUBLIC SEWER		85,000.00	650,000.00	735,000.00

See pdf file for 1997-2004 costs

Municipality: City of New Berlin - Sanitary Sewer System

			Kesult of 2010
Project Description	Total Cost	Category*	Facilities Plan (yes/no)
CCTV Inspection - Maholes & Mains - 3 yr period	\$336,000	1	No
	\$5,000	1	oN
Manhole Rehab with Street Resurfacing Projects	\$171,838	2	No
Sewerline Relay & Spot Repairs	\$181,000	3	No
1,456 LF - 15" Concrete Sewer Pipe	\$125,615	3	οN
Yr 1997 Total Projects	\$819,453		
MH Rehab with Street Resurfacing Projects	\$172.083	2	%
2 444 LF - 15" & 18" Concrete Sewer Pipe	\$235,674	3	°Z
Yr 1998 Total Projects	\$407,757		
		•	;
Critical MH Lid Replacement	\$5,000	2	Yes
MHI-SLI Inspections & Rehab	\$347,978	1 & 2	Yes
Vr 1999 Total Projects	\$352,978		
			;
LSSES Study - 165 miles Sewer + 4141 MH's	\$688,763		
hole Lid Replacement Project	\$247,058	2	
Priority Basins - Manhole Rejab Project - 1,123 MH's	\$1,480,000	2	Yes
Vr 2000 Total Projects	\$2,415,821		
Dilet I/I Study - Edung on Drivote December / Samose	\$155,000		New Y
Dhan II Markala Dahah Draiert	\$1.262.500	7	
Yr 2001 Total Projects	\$1,417,500		
Sewer Flow Monitoring & Analyses	\$38,250		Yes
Vr 2002 Total Projects	\$38,250		

	2 Yes	1 Yes		1 Yes	I Yes		2 Yes	1 Yes		2 & 3 Yes	2 & 3 Yes		1	1 Yes		2 & 3 Yes	
	\$1,174,200	\$12,000		\$54,700	\$257,800	\$1,498,700	\$20,000	\$48,800	868,800	\$1,302,100	\$467,200	\$1,769,300	0001 200	\$250,000		\$1,250,000	002 101 500
City of New Berlin - Sanitary Sewer System	Phase III-Manhole Rehab Project (1,000+/- MH's)	III Reduction Analyses - Define Success of Basin Rehab work		Sewer Flow Monitoring and Analyses	Maintenance, line cleaning & CCTV use PACP Methodology	Yr 2003 Total Projects	Sewer Line Maintenance, rehab?	I/I Reduction Study Work	Yr 2004 Total Projects	CIPP Relining 9,793 LF - 18,27,30,36 & 42" Diameter	MH & SL & Lat Rehab, Lat Relay 420 LF + MH Grout 43	Vr 2005 Total Projects	O string Delining	John Mentification		Manhole & Sewerline & Lateral Rehab	T
I/I Reduction	2002-2003 Basins 1-10	2003 NB-09	15 Sub-Basin Areas. 10 Lift Stations, & 6	2003 Rain Gauges	2003 Basin 7 & 10		2004 City-wide	2004 Basins 1,3,4,5, & 6		2005 Basin 7	2005 Brookside Parkway		300C	2006 Galewood Suo	Seminary Serial Systems	2006-2010 Sanitary Sewer Syst	
	2002-2003	2003		2003	2003		2004	2004		2005	2005		2000	2002	2102	2006-2010	

Yr 2005 Total Projects	\$860,631	
Yr 2006 Total Projects	\$544,788	
Yr 2007 Total Projects	\$192,847	
Vr 2008 Total Projects	\$1,570,444	

		Yr 2009 Total Projects	\$958,745		
	Project Location				Result of 2010
Year	(Section No's.)	Project Description	Total Cost	Category*	(ves/no)
1996-97	996-97 SP-2 Pond	Design	\$64,300	4	oN.
1998	1998 SP-2 Pond	Construction	\$500,000	4	N _o
		Yr 1998 Total Projects	\$564,300		
			_		
	Gatewood Sub -				
2002	2002 Woodside Drive	Storm Sewer Installation	\$55,000	2 & 4	Yes
	Westridge Business				
2002	2002 Park - E of Moorland	Design & Inspection Services	\$111,550	4	Š
2002	2002 (above)	Construction	\$210,000	4	ν̈́
		Drainage Improvements: including ditch grading, cross culverts &			Yes- Some
2002	2002 City-Wide	misc landscaping restoration	\$406,629	2 & 4	No - Others
		Yr 2002 Total Projects	8783,179		
2003	2003 Calhoun Park	Streambank Restoration	\$87,000	4	No
	(above)	Construction Services	\$69,749	4	%
	Deer Creek; near Buena	_			
	Park & NB Industrial				
2003 Park	Park	Watershed Study and Detention Basin - Design	\$90,721	4	Ŷ
2003	2003 Gatewood Sub	Storm Sewer - Design	\$57,300	284	Yes
2003	2003 Malone Park	Design - Underground Storage System	\$41,200	4	%
		Drainage Improvements including ditch grading, cross culverts &			Yes - Some
2003	2003 City-Wide	misc landscaping - restoration	\$369,279	2 & 4	No - Others
		Vr 2003 Total Projects	\$715,249		
	Malone Park -				
	Underground Detention				
2004	2004 Facility	Construction	\$374,595	4	Yes
,	(above)	Inspection - Coordination Services	\$29,040	4	Yes
, c	New Berlin Hills Golf				
2004	2004 Course	Streambank Stabilization	\$189,417	4	No

	[I/I Reduction	City of New Berlin - Storm Water Drainage			三 美洲 医
		Drainage Improvements: including storm sewer, ditches, driveway			
2004	2004 Buena Park Sub	culverts & concrete invert	\$1,400,000	2 & 4	Yes
2004	2004 Gatewood Sub	Storm Sewer - Construction	\$1,200,000	2 & 4	Yes
	Upper Root River				
	Tributary area - N				
2004	2004 Central part of City	Watershed Study and Design	\$95,000	4	Yes
		Drainage Improvements: including ditch grading, cross culverts &			Yes - Sоте
2004	2004 City-Wide	misc landscaping - restoration	\$403,765	2 & 4	No - Others
		Yr 2004 Total Projects	\$3,691,817		
	Kelly Lake - Upstream				
	at Frances Ave & St.				
2005	2005 Marys Dr	Streambank & Wetland Restoration	\$45,000	4	°Z
2005	2005 Inez Dr & Overlook	Storm Sewer Design & Installation	\$280,000	4	οN
	N Central Industrial				:
	Park (Deer Creek				
2002	2005 Tributary area)	Stormwater Quality & Quantity Control Management Plan	\$141,000	4	Yes
		Drainage Improvements: including ditch grading, cross culverts &			Yes - Some
2002	2005 City-Wide	misc landscaping - restoration	\$394,631	2 & 4	No - Others

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Yes - Some No - Others

^{*}Categories

| = I/I Investigation
2 = I/I Reduction
3 = Sewer Relay/Upgrade
4 = Stormwater Management

I & I COSTS HIGH - LOW 2005-2007

-	INSPECTION	REHABILITATION	TOTAL
			· <u></u>
Milwaukee	\$884,449	\$9,948,030	\$10,924,529
Whitefish Bay	\$256,0 <u>00</u>	\$4,355,000	\$4,611,000
Wauwatosa	\$211,314	\$4,357,641	\$4,569,955
West Allis	\$295,000	\$3,793,650	\$4,088,650
New Berlin	\$443,591	\$2,401 <u>,318</u>	
Greenfield	\$400,788	\$1,972,117	\$2,320,705
Milwaukee County	\$832,637	\$1,275,000	\$2,107,638
Brookfield	\$103,450	\$1,520,900	\$1,624,350
Bayside	\$102,532	\$1,429,241	\$1,531,773
Hales Corner	\$32,807	\$1,346,760	\$1,3 <u>79,007</u>
Cudahy	\$289,703	\$949,089	\$1,238,342
Fox Point	\$128,605	\$919,006	\$1,047,911
Glendale	\$122,740	\$707,600	\$807,140
Mequon	\$99,125	\$675,935	\$744,060
Greendale	\$35,848	\$614,150	\$649,998
Franklin	\$278,092	\$207,244	\$485,336
Menomonee Falls	\$25,510	\$272,082	\$297,592
River Hills	\$105,696	\$176,294	\$281,927
Oak Creek	\$172,500	\$84,800	\$257,300
Brown Deer	\$57,646	\$186,544	\$248,106
Shorewood	\$6,812	\$189,876	\$196,688
Elm Grove	\$10,959	\$162,330	\$173,288
Thiensville	\$45,452	\$123,487	\$163,939
Germantown	\$81,600	\$13,545	\$95,145
St. Francis	\$20,524	\$40,491	\$61,015
West Milwaukee	\$3,140	\$54,175	\$57,315
Muskego	\$21,100	\$15,000	\$36,100
Caledonia	\$7,900	\$18,000	•
Butler	\$8,869	\$3,800	

Note: Totals are from MMSD Reports for 2005-2007 expenditures for I & I

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-711	117
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2007									
Connect	tions						occupancy		
		Q1	Q2	Q3	Q4	Average	Average factor		
Basin	Cust Class	Count	Count	Count	Count			•	
MIEW	C-CONDO/APT	264	264	265	265				
MIRM ;	R Residential	5,024	5,034	5,042	5,046	5,037	2.69	13,548	
MISB	C-CONDO/APT	598	611	619	644				
• • •							0.00	7.004	
MISB'	R Residential	2,733	2,737	2,737	2,738	2,736	2.69	7,361	
2008									
Connect	tions						occupancy		
		Q1	Q2	Q3	Q4	Average	population		
Basin	Cust Class	Count	Count	Count	Count				
MIEW	C-CONDO/APT	265	268	270	270				
MILW	R Residential	5,056	5,060	5,069	5,074	5,074 5,065 2		13,624	
MISB	C-CONDO/APT	654	661	668	672	2 664		_	
MISB	R Residential	2,745	2,748	2,753	2,755 2,750		2.69	7,398	
MICO	it itesidefiliai ,	, <u>2,74</u> 0	2,140	2,100	2,700	2,700	2.00	7,550	
2009									
Connect	tions						occupancy		
		Q1	Q2	Q3	Q4	Average	factor	population	
Basin	Cust Class	Count	Count	Count	Count				
MILW	C-CONDO/APT	271	272	276	277				
MIFM	R Residential	5,080	5,083	5,087			2.66	13,527	
40.00									
MISB	C-CONDO/APT	679	681	685	685				
WIGB.	R Residential	2,756	2,755	2,760	2,762 2,758		2.66	7,337	

2009 Sewer Flows

	Milw Basin	Miss. Basin	Total	Avg.
January	2,277,000	10,174,281	12,451,281	401,654
February	2,372,000	11,712,000	14,084,000	503,000
March	3,020,000	16,908,016	19,928,016	642,839
April	3,143,000	17,624,811	20,767,811	692,260
ay	3,132,000	14.763.967	17,895,967	577,289
June	3,185,000	21,767,056	24,952,056	831,735
July	2,216,000	11,698,434	13,914,434	463,814
August	<u>2,322,000</u>	11,576,773	13,898,773	448,348
September	<u>2,102,000</u>	10,558,115	12,660,115	422,004
October	2.198,000	12,117,313	14,315,313	461,784
November	<u>2,118,652</u>	13.721,667	15,840,319	528,011
December	2,578,340	17,033,888	<u>19,612,228</u>	632,653
Total	30,663,992	169,656,321	200,320,313	548,823

1,879 Private Wells on sewer system. Est. Volume 17,995 gallons per quarter

2010 Sewer Flows

February

March

January

April May June July August

Avg.	583,661	482.411	693,993										NR,
<u>Total</u>	18,093,484	13,507,509	21,513,777	0	0	0	0	0	0	0	0	0	RECEIVED-DNR APR 6 2010 DRINKING WATER & GW
<u>Miss. Basin</u>	15,729,632	11,517,038	18,335,158	0	0	0	0	0	0	0	0	0	<u>system.</u> er quarter
Milw. Basin	2,363,852	1,990,471	3,178,619	Ol	0	Ol	Ol	OI	Ol	Ol	Ol	Ol	1,879 Private Wells on sewer system. Est. Volume 17,995 gallons per quarter

Total

September October November

December



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Billing/Payment Information

to download an explanation of your Utility bill, click here

Quarter	Billing Period	Bills Malled	Payment Due
1 st	January 1 st - April 1 st	April 7-10	April 30 th
2 nd	April 1 st - July 1 st	July 7-10	July 31 st
3 rd	July 1 st - October 1 st	October 7-10	October 31 st
4 th	October 1 st - January 1 st	January 7-10	January 31 st

Note: During the 3rd quarter all residential (1 -2 family) Water and Sewer Customers receive a summer sewer adjustment. Your 3rd quarter sewer consumption will be based on your 1st quarter sewer consumption unless your 3rd quarter is smaller.

Water Rates - Effective September 1, 2009 All vacant lots are charged \$8.00 per quarter for water availability until the building is connected for service.

Quarterly Meter User Charge:

3-inch meter - \$136.33
4-inch meter - \$224.18
6-inch meter - \$330.21
8-inch meter - \$496.83
10-Inch meter -\$714.94
12-inch meter -\$933.06

Volumetric Usage Charge:

First 35,000 gallons used each quarter - \$3.43 per 1,000 gallons Next 36,000-50,000 gallons used each quarter - \$3.33 per 1,000 gallons Over 50,000 gallons used each quarter - \$2.48 per 1,000 gallons

FWARIAWATER Rates - Effective January 1st, 1996

All vacant lots are charged \$53.89 per quarter for sewer availability until the building is connected for service.

Residential Sewer User Charges!

\$1.74888 per 1,000 gallons used and a \$130.59 Use and Connection Charge per quarter.

For duplexes add a 76.60 unit charge per quarter.

Non-Metered Sewer User Charges:

\$162.06 per quarter; this is based on \$76.70 per Unit, plus a \$53.89 Connection Charge, plus estimated volume of 17,995 gallons per

Commercial-Industrial-Public Sewer User Charges:

\$6.0111 per 1,000 gallons used plus \$53.89 Connection Charge per quarter.

PAYMENT OPTIONS

We strongly encourage you to use the brown drop box located in the City Hall (lower) parking lot to avoid waiting in lines. Please return the payment coupon and your payment in the envelope included with your bill. For your security and ours, please pay by check. Checks should be made payable to: CITY OF NEW BERLIN.

We encourage you to pay by mail to avoid waiting in lines. Please return the payment coupon and payment in the envelope included with your bill. For your security, and ours, please pay by check. Checks should be made payable to: CITY OF NEW BERLIN.

Credit Card Payments

Payments can be made by credit card using a touch-tone phone OR via the Internet. CREDIT CARD PAYMENTS CANNOT BE ACCEPTED AT THE CASHIER'S OFFICE. Whichever method you choose, be aware that a convenience fee, based on the amount of each

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City living with a touch of country

charged payment, will be added to your credit card transaction. It is also very important that you wait for a confirmation/transaction number before you conclude your phone call or Internet connection. This number will assist you should there be any problem with your charge payment.

By Phone: To use this service, New Berlin customers may call 1-888-272-9829 from any touch-tone phone and enter the City's jurisdiction code (5801). Your Utility account number, daytime phone number, and valid credit card will be required to complete the transaction. Payments may be made using American Express, MasterCard, or Discover Card. VISA is not an accepted form of credit for Utility payments at this time.

Via Internet: Click on this link or log on to www.officialpayments.com. You may either enter your zip code or the City's jurisdiction code (5801) to start your transaction; follow the site's instructions. Here, again, VISA is NOT an accepted form of credit for Utility payments at this time.

In Person: Payments can always be made in person at New Berlin City Hall, 3805 S. Casper Drive from 8:00 a.m. to 4:30 p.m., Monday through Friday excluding announced holidays.

City Hall located at 3805 S. Casper Drive New Berlin, WI 53151 Ph: (262) 786-8610 Hrs: Monday-Friday 8:00 am-4;30 pm

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